

chain nodes :

7 8 10 28

ring nodes :

1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 23 30 31 32 33 34 37 38
39 40 41 42 43 44 45 46 47

chain bonds :

3-28 6-7 7-8 8-10

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 14-37 15-16 15-38 16-17 17-18 19-20
19-23 20-21 21-22 21-47 22-23 22-44 30-31 30-34 31-32 32-33 32-43 33-34 33-40
37-39 38-39 40-41 41-42 42-43 44-45 45-46 46-47

exact/norm bonds :

1-2 1-6 2-3 3-4 3-28 4-5 5-6 6-7 7-8 8-10 14-37 15-38 19-20 19-23 20-21
21-22 21-47 22-23 22-44 30-31 30-34 31-32 32-33 32-43 33-34 33-40 37-39 38-39
40-41 41-42 42-43 44-45 45-46 46-47

normalized bonds :

13-14 13-18 14-15 15-16 16-17 17-18

isolated ring systems :

containing 1 :

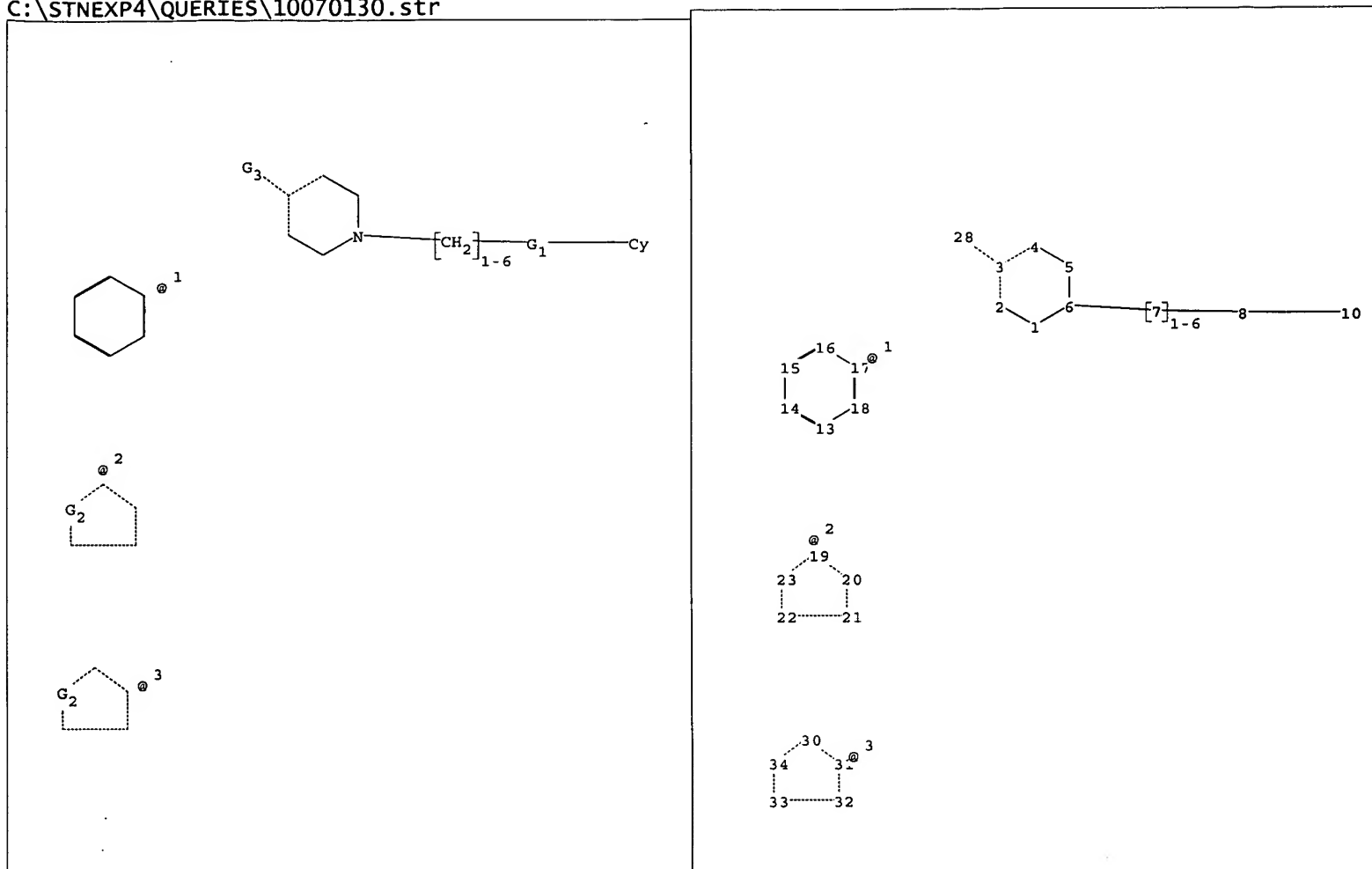
G1:C,S

G2:O,S

G3:[*1],[*2],[*3]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 28:CLASS
30:CLASS 31:CLASS 32:Atom 33:Atom 34:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom
42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom



chain nodes :

7 8 10 28

ring nodes :

1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 23 30 31 32 33 34

chain bonds :

3-28 6-7 7-8 8-10

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 19-20 19-23 20-21
21-22 22-23 30-31 30-34 31-32 32-33 33-34

exact/norm bonds :

1-2 1-6 2-3 3-4 3-28 4-5 5-6 6-7 7-8 8-10 19-20 19-23 20-21 21-22 22-23
30-31 30-34 31-32 32-33 33-34

normalized bonds :

13-14 13-18 14-15 15-16 16-17 17-18

isolated ring systems :

containing 1 :

G1:C,S

G2:O,S

G3:[*1],[*2],[*3]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 28:CLASS
30:CLASS 31:CLASS 32:Atom 33:Atom 34:Atom

Welcome to STN International! Enter x:x

LOGINID:sssptaul21zxn

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/CAPLUS records now contain indexing from 1907 to the present
NEWS	4	Jul 15	Data from 1960-1976 added to RDISCLOSURE
NEWS	5	Jul 21	Identification of STN records implemented
NEWS	6	Jul 21	Polymer class term count added to REGISTRY
NEWS	7	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	8	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	9	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	10	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	11	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	12	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	13	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	14	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	15	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	16	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation
NEWS	17	AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS	18	SEP 22	DIPPR file reloaded
NEWS	19	SEP 25	INPADOC: Legal Status data to be reloaded
NEWS EXPRESS			April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

10/070,130

FILE 'HOME' ENTERED AT 15:49:43 ON 25 SEP 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:49:50 ON 25 SEP 2003

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STRUCTURE FILE UPDATES: 24 SEP 2003 HIGHEST RN 592465-25-3

DICTIONARY FILE UPDATES: 24 SEP 2003 HIGHEST RN 592465-25-3

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

FILE COVERS 1907 - 25 Sep 2003 VOL 139 ISS 13

FILE LAST UPDATED: 24 Sep 2003 (20030924/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.48

149.66

FILE 'REGISTRY' ENTERED AT 15:56:11 ON 25 SEP 2003

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

10/070,130

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 10070130.str

L5 STRUCTURE UPLOADED

=> s l5 sam

SAMPLE SEARCH INITIATED 15:57:07 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 6219 TO ITERATE

16.1% PROCESSED 1000 ITERATIONS

1 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 119654 TO 129106

PROJECTED ANSWERS: 1 TO 273

L6 1 SEA SSS SAM L5

=> dis

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN

RN 180268-00-2 REGISTRY

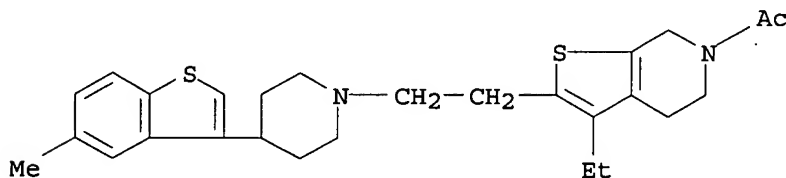
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H34 N2 O S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s l5 full

FULL SEARCH INITIATED 15:57:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 125177 TO ITERATE

100.0% PROCESSED 125177 ITERATIONS

220 ANSWERS

SEARCH TIME: 00.00.02

L7 220 SEA SSS FUL L5

=> file caold
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
150.23	299.89

FILE 'CAOLD' ENTERED AT 15:57:29 ON 25 SEP 2003
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FILE COVERS 1907-1966
 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s 17
 L8 0 L7

=> file caplus
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.40	300.29

FILE 'CAPLUS' ENTERED AT 15:57:37 ON 25 SEP 2003
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FILE COVERS 1907 - 25 Sep 2003 VOL 139 ISS 13
 FILE LAST UPDATED: 24 Sep 2003 (20030924/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17
 L9 37 L7

=> s 19 and pd<september 1999

19663412 PD<SEPTEMBER 1999
(PD<19990900)

L10 28 L9 AND PD<SEPTEMBER 1999

=> s l9 not l10

L11 9 L9 NOT L10

=> dis l11 1-9 bib abs

L11 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:40167 CAPLUS

DN 138:89686

TI Preparation of indole-containing benzenesulfonamides as antagonists of TXA2 and 5-HT2 receptors, process for their preparation, pharmaceutical compositions containing them and therapeutic uses such as platelet aggregation inhibitors

IN Lavielle, Gilbert; Cimetiere, Bernard; Verbeuren, Tony; Simonet, Serge; Vayssettes-Courchay, Christine

PA Les Laboratoires Servier, Fr.

SO Eur. Pat. Appl., 18 pp.

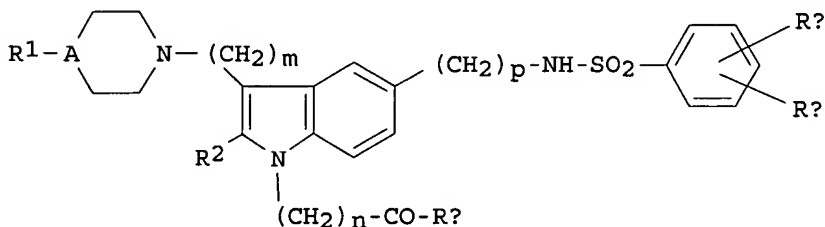
CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1275644	A1	20030115	EP 2002-291746	20020711
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	FR 2827287	A1	20030117	FR 2001-9338	20010713
	JP 2003064055	A2	20030305	JP 2002-200910	20020710
	BR 2002002674	A	20030506	BR 2002-2674	20020710
	NO 2002003389	A	20030114	NO 2002-3389	20020712
	US 2003109533	A1	20030612	US 2002-195031	20020712
	US 6589956	B2	20030708		
	CN 1397550	A	20030219	CN 2002-124161	20020715
PRAI	FR 2001-9338	A	20010713		
OS	MARPAT 138:89686				
GI					



AB Benzenesulfonamides (shown as I; variables defined below; e.g. 3-[3-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-5-[2-[(4-chlorophenyl)sulfonyl]amino]ethyl]-1H-indol-1-yl]propanoic acid (example 6)), methods for their prepn., pharmaceutical compns. and therapeutic uses as antagonists of TXA2 and 5-HT2 receptors are claimed. Example 6 exhibits IC50 values for inhibition of platelet aggregation induced by

TXA2 and that produced by 5-hydroxytryptamine of 1.5 and 3.0 μ M. Ten example preps. of I and 3 of intermediates are included.
 3-[5-[2-[[4-(4-chlorophenyl)sulfonyl]amino]ethyl]-3-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-1H-indol-1-yl]propanoic acid was prepd. via intermediates N-[2-(4-aminophenyl)ethyl]-4-chlorobenzenesulfonamide, 4-chloro-N-[2-(4-hydrazinophenyl)ethyl]benzenesulfonamide, 4-chloro-N-[2-[3-(2-hydroxyethyl)-1H-indol-5-yl]ethyl]benzenesulfonamide, N-[2-[3-(2-bromoethyl)-1H-indol-5-yl]ethyl]-4-chlorobenzenesulfonamide, 4-chloro-N-[2-[3-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-1H-indol-5-yl]ethyl]benzenesulfonamide, and 4-chloro-N-[2-[1-(2-cyanoethyl)-3-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-1H-indol-5-yl]ethyl]benzenesulfonamide. For I: Ra = hydroxy, alkoxy, aryloxy, arylalkyloxy, amino, alkylamino, dialkylamino, arylamino, arylalkylamino. A = either CH (R1 = H, alkyl, cycloalkyl, cycloalkylalkyl, aryl, arylcarbonyl, arylcarbonylalkyl, aryloxy, aryloxyalkyl, arylthio, arylthioalkyl, arylamino, arylalkylamino, heteroaryl, heteroarylalkyl, heteroarylcarbonyl, heteroarylcarbonylalkyl, heteroaryloxy, heteroaryloxyalkyl, heteroarylthio, heteroarylthioalkyl, heteroarylamino or heteroarylalkylamino), or N (R1 = H, alkyl, cycloalkyl, cycloalkylalkyl, aryl, arylcarbonyl, arylcarbonylalkyl, arylsulfonyl, aryloxyalkyl, arylthioalkyl, heteroaryl, heteroarylalkyl, heteroarylcarbonyl, heteroarylcarbonylalkyl, heteroaryloxyalkyl, heteroarylsulfonyl or heteroarylthioalkyl) or R1-A = O, C:CR3R4 (R3, R4 = H, aryl, alkyl, heteroaryl). R2 = H, alkyl; Rb, Rc = H, halo, alkyl, alkoxy, hydroxy, trihaloalkyl; n = 2-6; m and p = 0-6; addnl. details on the variables are given in the claims.

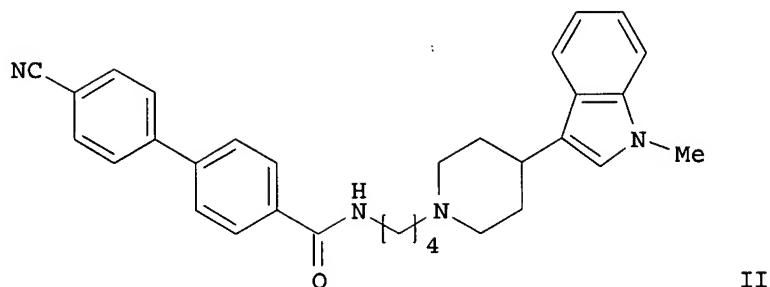
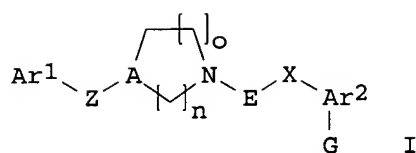
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:539658 CAPLUS
 DN 137:109294
 TI Preparation of aryl piperidines and piperazines as inducers of
 LDL-receptor expression
 IN Bouillot, Anne Marie Jeanne; Bombrun, Agnes; Dumaitre, Bernard Andre;
 Gosmini, Romain Luc Marie
 PA Glaxosmithkline, UK
 SO PCT Int. Appl., 115 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055496	A1	20020718	WO 2001-GB158	20010115
	WO 2002055496	C1	20030717		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI	WO 2001-GB158		20010115		
OS	MARPAT 137:109294				
GI					



AB The title compds. [I; Ar1 = (un)substituted Ph, naphthyl, Ph fused by cycloalkyl, etc.; Z = a direct link, O, SO₂, etc.; A = CR₄, N; R₄ = H, alkyl, OH, (un)substituted Ph; n = 1-3; o = 1-2; E = alkylene optionally contg. 1-2 double bonds or one triple bond and optionally incorporating an O, S, NH, N(alkyl) in the chain; X = a direct link, O, NHCO, etc.; Ar2 = (un)substituted Ph, 5-6 membered heteroaryl, bicyclic heteroaryl; G = H, YAr3; Y = a direct link, O, alkylene, etc.; Ar3 = (un)substituted Ph, naphthyl, Ph fused by cycloalkyl, etc.] and their physiol. acceptable salts, useful in the manuf. of a medicament for the treatment of diseases ameliorated by LDL-r upregulation, were prepd. Thus, amidation of 4-[4-(1-methyl-1H-indol-3-yl)piperidin-1-yl]butylamine (prepn. given) with 4'-cyanobiphenyl-4-carboxylic acid afforded 33% II which showed IC₅₀ of 10 nM in assay for LDL-r promoting activity.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:487558 CAPLUS

DN 137:63260

TI Preparation of heterocyclyl-piperidinyl/piperazinyl-isochromans as CNS agents

IN Agejas-Chicharro, Javier; Bueno Melendo, Ana Belen; Camp, Nicholas Paul; Gilmore, Jeremy; Jimenez-Aguado, Alma Maria; Lamas-Peteira, Carlos; Marcos-Llorente, Alicia; Mazanetz, Michael Philip; Montero Salgado, Carlos; Timms, Graham Henry; Williams, Andrew Caerwyn

PA Eli Lilly and Company, USA

SO PCT Int. Appl., 195 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002050067	A2	20020627	WO 2001-US45856	20011219
	WO 2002050067	A3	20021010		

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KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU

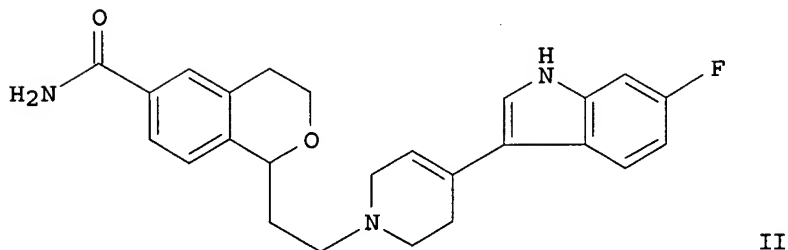
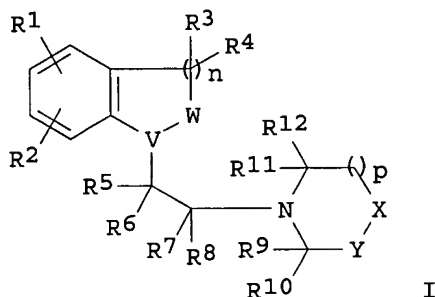
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GB 2370270 A1 20020626 GB 2000-31084 20001220
 AU 2002032468 A5 20020701 AU 2002-32468 20011219
 EP 1345930 A2 20030924 EP 2001-991995 20011219

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI GB 2000-31084 A 20001220
 WO 2001-US45856 W 20011219

OS MARPAT 137:63260
 GI



AB Title compds. I [R1 = CN, carboxamide, sulfonamide, heterocyclyl, etc.; R2 = R1, H, alkyl, alkoxy, halo; R3-10, R12 = H, alkyl; R9, R11 = H, alkyl; n = 1-2; p = 0-2; q = 1-2; W-V = CH2-CH, O-CH, S-CH, CH=C; X-Y = N(Z)-CH2, C(Q)(Z)-CH2, C(Z)=CH; Z = benzothiophenyl, benzofuranyl, etc.] were prepd. Over 100 synthetic examples were provided. For instance, 6-Fluoro-3-(1,2,3,6-tetrahydropyridin-4-yl)-1H-indole (prepn. given) was reacted with 2-[6-(aminocarbonyl)-3,4-dihydro-1H-2-benzopyran-1-yl]ethyl methanesulfonate (prepn. given) to afford II as a yellow solid. I are useful for treating central nervous system disorders (no data).

L11 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:184900 CAPLUS

DN 136:247577

TI Preparation of 3-phenyl-4,5,6,7-tetrahydropyrazolo[4,3-c]pyridines as cathepsin S inhibitors for treating allergies

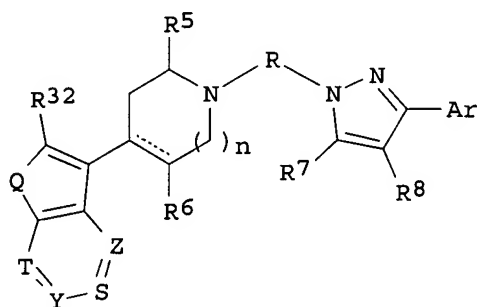
IN Cai, Hui; Edwards, James P.; Gu, Yin; Karlsson, Lars; Meduna, Steven P.;
 Pio, Barbara A.; Sun, Siqun; Thurmond, Robin L.; Wei, Jianmei
 PA Ortho McNeil Pharmaceutical, Inc., USA
 SO PCT Int. Appl., 115 pp.
 CODEN: PIXXD2

DT Patent

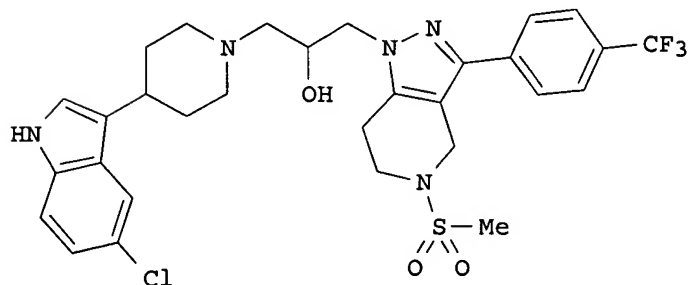
LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2002020013	A3	20020620		
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	US 2002040019	A1	20020404	US 2001-927188	20010810
	AU 2001088731	A5	20020322	AU 2001-88731	20010905
	EP 1315492	A2	20030604	EP 2001-968487	20010905
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
PRAI	US 2000-230407P	P	20000906		
	US 2001-927188	A	20010810		
	US 2000-225178P	P	20000814		
	WO 2001-US27480	W	20010905		
OS	MARPAT 136:247577				
GI					



I



II

AB Title compds. I [wherein Ar = (un)substituted mono- or bicyclic (hetero)aryl; G = (un)substituted alkenediyl or alkanediyl; Q = O, S, or (un)substituted N; S, T, Y, and Z = independently N or (un)substituted C; R5 and R6 = independently H or alkyl; R7 and R8 = independently H, alkyl, alkenyl, alkoxy, alkylthio, halo, carbocyclyl, or heterocyclyl; or R7R8 = (un)substituted carbocyclic or heterocyclic ring; R32 = H, (hydroxy)alkyl, CN, acyl, carbamoyl, CHO, or alkoxy carbonyl; n = 0-2; or pharmaceutically acceptable salts, amides, esters, or stereoisomers thereof] were prepd. as cathepsin S inhibitors for the treatment of an allergic condition, including an atopic allergic conditions. For example, 1-methanesulfonylpiperidin-4-one (prepn. given) was condensed with morpholine in the presence of TsOH to give the enamine. Reaction with 4-CF₃C₆H₄COCl, followed by cycloaddn. with H₂NNH₂, gave 5-methanesulfonyl-3-(4-trifluoromethylphenyl)-4,5,6,7-tetrahydro-1H-pyrazol[4,3-c]pyridine (72%). Alkylation with epichlorohydrin (35%) and addn. of 5-chloro-3-piperidin-4-yl-1H-indole (prepn. given) afforded II (88%). The latter inhibited recombinant human cathepsin S with IC₅₀ of 0.07 .mu.M.

L11 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:142709 CAPLUS

DN 136:200183

TI Substituted and/or fused pyrazoles, particularly indolylpiperidinylpropyl-substituted pyrazolopyridines, useful as cathepsin S inhibitors, and their pharmaceutical compositions and use as immunosuppressants

IN Cai, Hui; Edwards, James P.; Meduna, Steven P.; Pio, Barbara A.; Wei, Jianmei

PA Ortho McNeil Pharmaceutical, Inc., USA

SO PCT Int. Appl., 119 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002014317	A2	20020221	WO 2001-US25180	20010810
	WO 2002014317	A3	20020704		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2001084823	A5	20020225	AU 2001-84823	20010810
	US 2002040019	A1	20020404	US 2001-927188	20010810
	EP 1309592	A2	20030514	EP 2001-963912	20010810
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRAI	US 2000-225178P	P	20000814		
	US 2001-927188	A	20010810		
	WO 2001-US25180	W	20010810		
OS	MARPAT 136:200183				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Substituted pyrazoles I, methods of manufg. them, compns. contg. them, and methods of using them to treat, for example, autoimmune diseases mediated by cathepsin S, are described [W, X, Y, Z = N, (un)substituted CH (0-3 of them may be N; or 1 can be N-oxide when other 3 .noteq. N); R = H, alkyl, cyano, hydroxyalkyl, acyl, CHO, alkoxy carbonyl, or (un)substituted carbamoyl; R1, R2 = H, alkyl; R3, R4 = H, alkyl, alkenyl, alkoxy, alkylthio, halo, or 4- to 7-membered carbo- or heterocyclyl; or R3R4 = atoms to form (un)substituted (un)satd. (non)arom. 5- to 7-membered carbo- or heterocyclic ring; Ar = (un)substituted mono- or bicyclic (hetero)aryl; n = 0-2; G = (un)substituted C3-6 alkanediyl or alkenediyl (substituents = OH, halo, oxo, aminoalkyl, etc.); Q = O, S, (un)substituted NH; including stereoisomers, pharmaceutically acceptable salts, esters, and amides]. Claimed uses include treatment of lupus, rheumatoid arthritis, and particularly asthma, and inhibition of tissue transplant rejection. Approx. 70 individual compds. I were prepd. and/or claimed, with detailed preps. given for 13 compds. For instance, 6-(morpholin-4-yl)-3-(piperidin-4-yl)-1H-pyrrolo[3,2-c]pyridine (prepd. in 5 steps) reacted with the corresponding epoxide (prepd. in several steps) to give title compd. II, a preferred compd. In an assay for inhibition of recombinant human cathepsin S in vitro, II had an IC50 of 0.02 .mu.M. Compd. III is another one of four specifically preferred compds.

L11 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:541632 CAPLUS

DN 135:122408

TI Preparation of sulfonamidohydronaphthalenealkanoates as 5-HT2 and TXA2 receptor antagonists

IN Lavielle, Gilbert; Cimetiere, Bernard; Verbeuren, Tony; Simonet, Serge; Descombes, Jean-Jacques

PA Adir et Compagnie, Fr.

SO Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

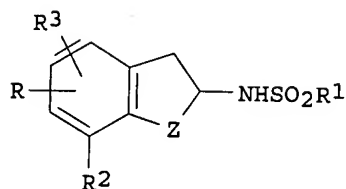
DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1118610	A1	20010725	EP 2001-400133	20010118
	EP 1118610	B1	20020821		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	FR 2803848	A1	20010720	FR 2000-623	20000119
	FR 2803848	B1	20020215		
	JP 2001226353	A2	20010821	JP 2001-5908	20010115
	NO 2001000305	A	20010720	NO 2001-305	20010118
	US 2001009915	A1	20010726	US 2001-764576	20010118
	US 6469011	B2	20021022		
	BR 2001000107	A	20010828	BR 2001-107	20010118
	AT 222586	E	20020915	AT 2001-1400133	20010118
	ES 2180524	T3	20030216	ES 2001-1400133	20010118
	ZA 2001000565	A	20010730	ZA 2001-565	20010119
	CN 1305989	A	20010801	CN 2001-101658	20010119
	US 2002137742	A1	20020926	US 2002-97764	20020314
	US 6545037	B2	20030408		
PRAI	FR 2000-623	A	20000119		
	US 2001-764576	A3	20010118		

OS MARPAT 135:122408
GI

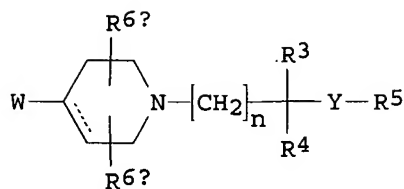


AB Title compds. [I; R = GT1; G = G1 or G1T2A; A = arylene; G1 = (un)substituted amino or N-attached heterocyclyl; R1 = (un)substituted Ph; R2 = (CH2)mCORa; Ra = OH, (ar)alkoxy, aryloxy; R3 = H, alkyl, aryl, etc.; T1 = (O-interrupted or terminated) alkylene; T2 = bond or (O-interrupted or terminated) alkylene; Z = (CH2)1-3; m = 0-6] were prepd. Thus, I (R1 = C6H4Cl-4, R2 = CH2CH2CO2Me, R3 = H, Z = CH2CH2) (II; R = 3-CH2CH2OTs) was aminated by 4-FC6H4COZ1H (Z1 = piperidine-4,1-diyl) to give II (R = 4-FC6H4COZ1CH2CH2). Data for biol. activity of a prepd. I were given.

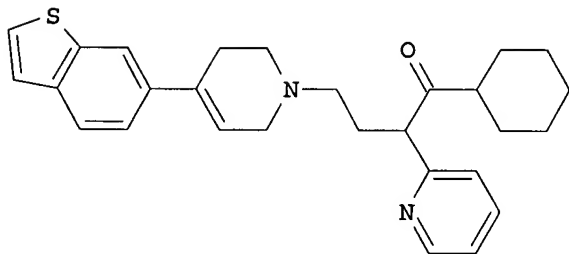
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:247332 CAPLUS
DN 134:280711
TI Preparation of 4-(benzothienyl)piperidines as serotonin reuptake inhibitors
IN Kohlman, Daniel Timothy; Liang, Sidney Xi; Xu, Yao-chang
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001023381	A1	20010405	WO 2000-US20824	20000914
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
BR 2000014447	A	20020611	BR 2000-14447	20000914
JP 2003510322	T2	20030318	JP 2001-526533	20000914
PRAI US 1999-157343P	P	19990929		
WO 2000-US20824	W	20000914		
OS MARPAT 134:280711				
GI				



I



II

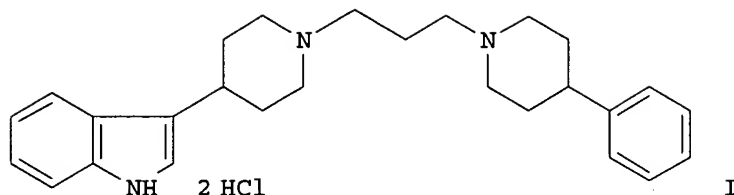
AB The title compds. [I; W = (un)substituted benzothienyl, benzofuranyl; Y = CO, CHOH, CH₂, etc.; n = 1-4; R₃ = O, OH, hydroxyalkyl, etc.; R₄ = (un)substituted aryl, heterocyclyl, cycloalkyl; R₅ = (un)substituted aryl, heterocyclyl, cycloalkyl; R_{6a}, R_{6b} = H, alkyl] which inhibit the reuptake of serotonin and antagonize the serotonin receptor, and therefore are useful in alleviating the symptoms caused by withdrawal or partial withdrawal from the use of tobacco or of nicotine, and treating depression, were prepd. and formulated. E.g., a multi-step synthesis of II was given.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:911215 CAPLUS
DN 134:71490
TI Preparation and effect of indole derivatives as .alpha.1B-adrenergic receptor antagonists
IN Hayasahi, Ryoji; Ohmori, Eiji; Isogaya, Masafumi; Morikawa, Mitsuhiro; Kumagai, Hiroki
PA Toray Industries, Inc., Japan
SO PCT Int. Appl., 187 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078716	A1	20001228	WO 2000-JP4068	20000622
	W: AU, CA, CN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2341542	AA	20001228	CA 2000-2341542	20000622
	EP 1106605	A1	20010613	EP 2000-940789	20000622
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	JP 1999-178170	A	19990624		
	WO 2000-JP4068	W	20000622		

OS MARPAT 134:71490
GI



AB Title compds. [ArBNR1(CO)nAQ; Ar is indole or the like; R1 is hydrogen or the like; B is a bond or B-N-R1 may form a ring structure such as piperidine; n is 0, 1 or the like; A is trimethylene, butylene, or the like; and Q is piperidine, isoindoline, or the like] and pharmacol. acceptable acid addn. salts are prepd. as .alpha.1B-adrenergic receptor antagonists. Title compds. and the salts serve as antagonists having a high affinity for .alpha.1B-adrenergic receptor and are useful as drugs to be used in the prevention and/or treatment of .alpha.1B-adrenergic receptor-related diseases (such as hypertension) or as pharmacol. tools for the elucidation of physiol. actions occurring through .alpha.1B-adrenergic receptor. Thus, the title compd. I was prepd. and tested.

RE.CNT 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1999:613891 CAPLUS

DN 131:243265

TI Preparation of arylpiperidinylheterocycles as antipsychotics

IN Nagamine, Masashi; Gotoh, Makato; Yoshida, Masanori; Nakazato, Atsuro; Kumagai, Toshihiro; Chaki, Shigeyuki; Tomisawa, Kazuyuki

PA Nihon Nohyaku Co., Ltd., Japan; Taisho Pharmaceutical Co., Ltd.

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

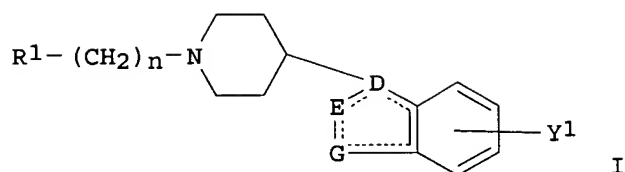
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9947515	A1	19990923	WO 1998-JP1180	19980319
	W: AU, CA, CN, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2324550	AA	19990923	CA 1998-2324550	19980319
	AU 9864196	A1	19991011	AU 1998-64196	19980319
	AU 747508	B2	20020516		
	EP 1070715	A1	20010124	EP 1998-909760	19980319
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT				
	US 6407121	B1	20020618	US 2000-646080	20000913
	US 2002156283	A1	20021024	US 2002-120408	20020412
PRAI	WO 1998-JP1180	A	19980319		
	US 2000-646080	A3	20000913		

OS MARPAT 131:243265

GI



AB The title compds. I [D represents carbon or nitrogen; E represents CH or nitrogen; G represents oxygen, sulfur, nitrogen, or NH; Y1 represents hydrogen or a halogen; n is an integer of 1 to 4; and R1 represents arylthiazolyl (generic structure given), etc.] are prepd. I are dopamine D4 antagonists. In an in vitro test for affinity for the dopamine D4 receptor, 2-amino-4-(4-fluorophenyl)-5-[2-[4-(6-fluorobenzofuran-3-yl)piperidin-1-yl]ethyl]thiazole (II) showed IC50 of 3.1 nM; in the test affinity for the dopamine D2 receptor, II showed IC50 of 67.3 nM.

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> dis 110 1-28 bib abs hitstr

L10 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1999:184232 CAPLUS

DN 130:237469

TI Preparation of phenylindoles as 5-HT2A receptor ligands

IN Castro Pineiro, Jose Luis; Hutchins, Steven Michael; Lewis, Stephen John; Rowley, Michael; Smith, Adrian Leonard; Stevenson, Graeme Irvine

PA Merck Sharp & Dohme Limited, UK

SO PCT Int. Appl., 83 pp.

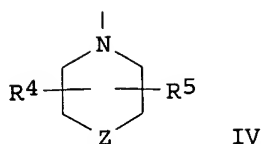
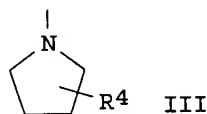
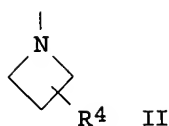
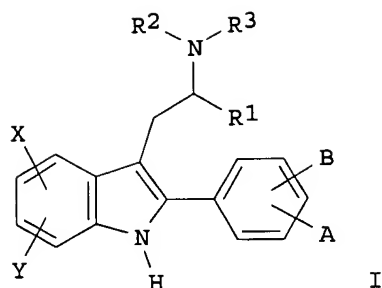
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9911619	A1	19990311	WO 1998-GB2616	19980901 <--
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9888766	A1	19990322	AU 1998-88766	19980901 <--
	US 6486153	B1	20021126	US 2000-508046	20000303
PRAI	GB 1997-18833	A	19970904		
	WO 1998-GB2616	W	19980901		
OS	MARPAT 130:237469				
GI					



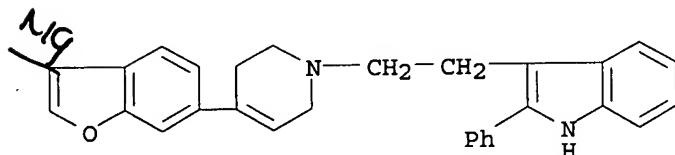
AB The title compds. [I; A, B = H, halo, CN, etc.; X, Y = H, halo, alkyl, etc.; R1 = H, alkyl; R2 = H, Me, Et, etc.; R3 = alkyl, alkenyl, cycloalkyl, etc.; NR2R3 = II-IV, etc.; R4 = H, alkyl, alkoxyalkyl, etc.; R5 = H, alkyl, alkoxyalkyl; Z = O, S, NR6, CR7R8; R6 = H, alkyl, alkenyl, etc.; R7 = H, alkyl, heterocyclyl, etc.; R8 = H, Ph, AcO], selective antagonists of the human 5-HT2A receptor and therefore useful as pharmaceutical agents, esp. in the treatment and/or prevention of adverse neurol. conditions, including psychotic disorders such as schizophrenia, were prepd. E.g., a multi-step synthesis of I [A, B, X, Y = H; R1 = H; NR2R3 = piperidino], was given. Prepd. compds. I were all found to possess a K_i of ≤ 100 nM for displacement of [3H]-ketanserin from the human 5-HT2A receptor, when expressed in Chinese hamster ovary (CHO) clonal cell lines.

IT 221282-03-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of phenylindoles as 5-HT2A receptor ligands)

RN 221282-03-7 CAPLUS

CN 1H-Indole, 3-[2-[4-(6-benzofuranyl)-3,6-dihydro-1(2H)-pyridinyl]ethyl]-2-phenyl- (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FÖRMAT

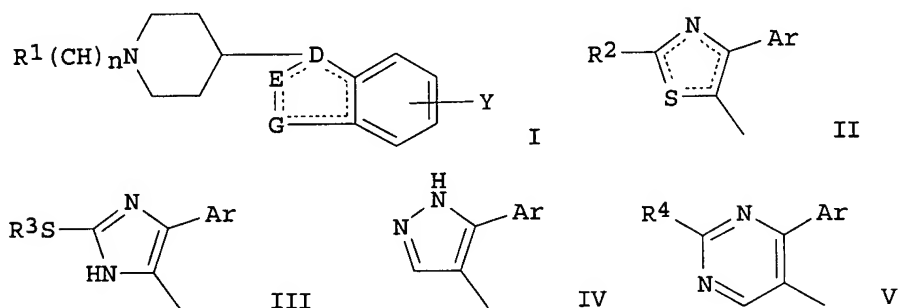
L10 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:227327 CAPLUS
DN 128:308491

TI Preparation of thiazolylpiperidines as dopamine D4 receptor antagonists
for tranquilizers
IN Nagamine, Masashi; Goto, Makoto; Yoshida, Masanori; Nakasato, Atsuo;
Kumagaya, Toshihito; Taki, Shigeyuki; Tomisawa, Kazuyuki
PA Nihon Nohyaku Co., Ltd., Japan; Taisho Pharmaceutical Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10095781	A2	19980414	JP 1996-249699	19960920 <--
PRAI	JP 1996-249699		19960920		
OS	MARPAT 128:308491				
GI					



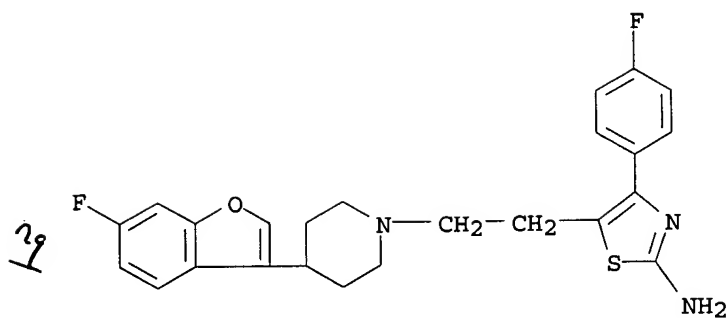
AB Title compds. I [D = C, N; E = CH, N; G = O, S, N, NH; Y = H, halo; n = 1-4; R1 = II, III, IV, V; R2 = H, C1-5 alkyl, (C1-5 monoalkyl)amino, OH, C2-6 alkoxy, carbonyl, H2NCO, CO2H (metal salt); Ar = (substituted) Ph, thienyl; R3 = C1-5 alkyl; R4 = H, HS, C1-5 alkylthio] and their pharmaceutically acceptable salts are prepd. A MeOH soln. of 0.917 g 2-amino-5-(2-bromoethyl)-4-(4-fluorophenyl)thiazole hydrobromide was treated with 0.511 g 4-(6-fluorobenzofuran-3-yl)piperidine hydrochloride in the presence of EtN(Pr-i)2 under reflux for 12 h to give 0.57 g I (R1 = II, R2 = NH2, Ar = 4-FC6H4, D = C, E = CH, G = O, Y = 6-F) (VI). VI in vitro showed IC50 of 3.1 nM in inhibition of [3H] spiperone binding to a dopamine D4 receptor.

IT 206439-95-4P 206439-96-5P 206439-97-6P
206439-98-7P 206439-99-8P 206440-00-8P
206440-01-9P 206440-23-5P 206440-26-8P
206440-28-0P

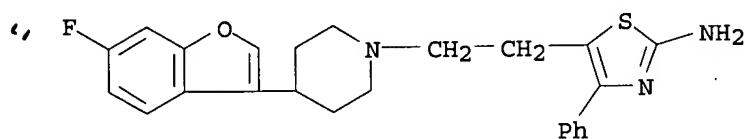
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of thiazolylpiperidines as dopamine D4 receptor antagonists for tranquilizers)

RN 206439-95-4 CAPLUS

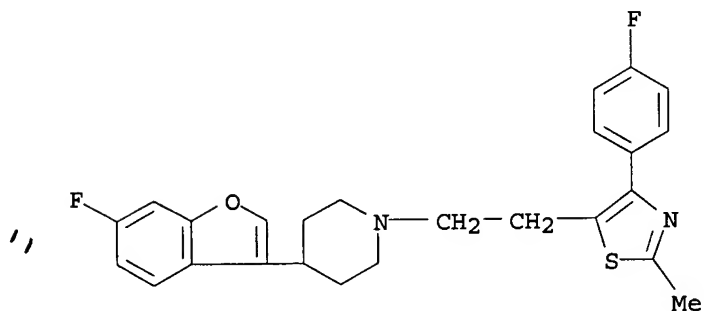
CN 2-Thiazolamine, 5-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



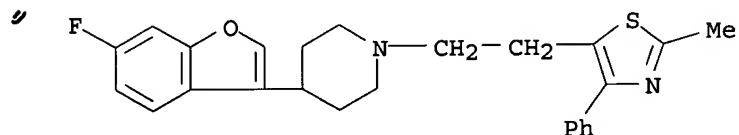
RN 206439-96-5 CAPLUS
 CN 2-Thiazolamine, 5-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4-phenyl- (9CI) (CA INDEX NAME)



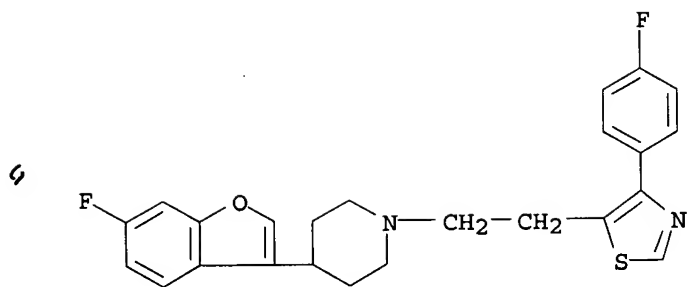
RN 206439-97-6 CAPLUS
 CN Piperidine, 4-(6-fluoro-3-benzofuranyl)-1-[2-[4-(4-fluorophenyl)-2-methyl-5-thiazolyl]ethyl]- (9CI) (CA INDEX NAME)



RN 206439-98-7 CAPLUS
 CN Piperidine, 4-(6-fluoro-3-benzofuranyl)-1-[2-(2-methyl-4-phenyl-5-thiazolyl)ethyl]- (9CI) (CA INDEX NAME)

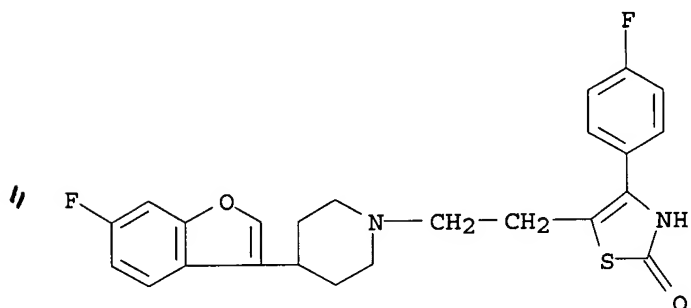


RN 206439-99-8 CAPLUS
 CN Piperidine, 4-(6-fluoro-3-benzofuranyl)-1-[2-[4-(4-fluorophenyl)-5-thiazolyl]ethyl]- (9CI) (CA INDEX NAME)



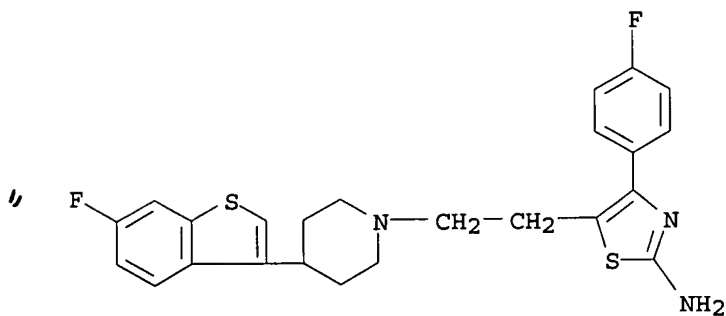
RN 206440-00-8 CAPLUS

CN 2(3H)-Thiazolone, 5-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 206440-01-9 CAPLUS

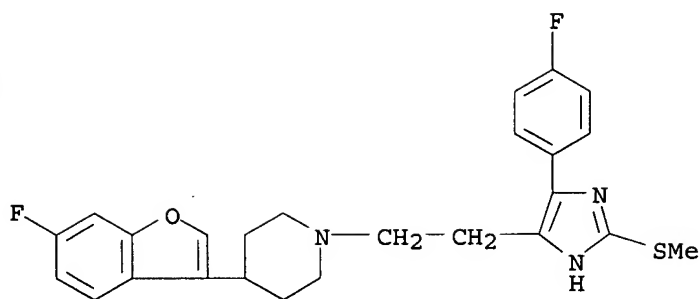
CN 2-Thiazolamine, 5-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 206440-23-5 CAPLUS

CN Piperidine, 4-(6-fluoro-3-benzofuranyl)-1-[2-[5-(4-fluorophenyl)-2-(methylthio)-1H-imidazol-4-yl]ethyl]- (9CI) (CA INDEX NAME)

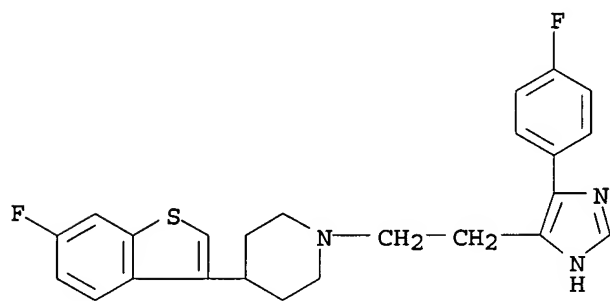
2g



RN 206440-26-8 CAPLUS

CN Piperidine, 4-(6-fluorobenzo[b]thien-3-yl)-1-[2-[5-(4-fluorophenyl)-1H-imidazol-4-yl]ethyl]- (9CI) (CA INDEX NAME)

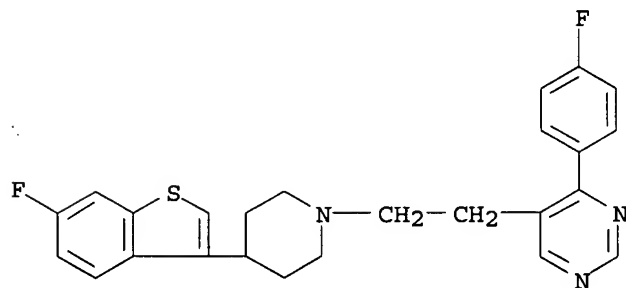
f'



RN 206440-28-0 CAPLUS

CN Pyrimidine, 5-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

b



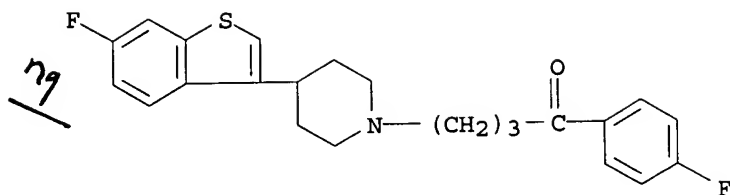
IT 159534-76-6P 206440-27-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

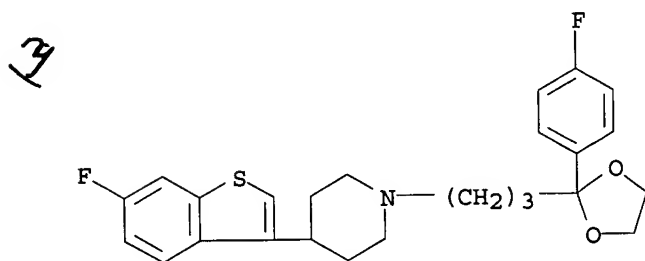
(prepn. of thiazolylpiperidines as dopamine D4 receptor antagonists for tranquilizers)

RN 159534-76-6 CAPLUS

CN 1-Butanone, 4-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]-1-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

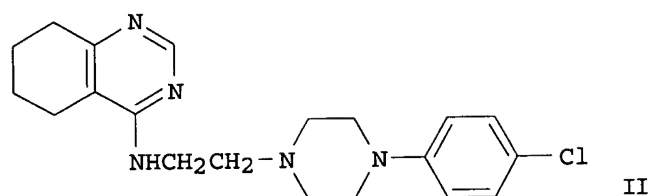
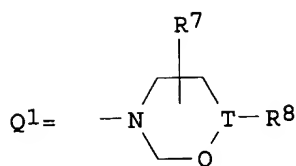
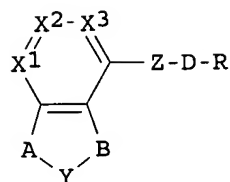


RN 206440-27-9 CAPLUS
 CN Piperidine, 4-(6-fluorobenzo[b]thien-3-yl)-1-[3-[2-(4-fluorophenyl)-1,3-dioxolan-2-yl]propyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1998:13943 CAPLUS
 DN 128:61522
 TI Preparation of fused heterocyclic compounds as antagonists of D2 and D4 receptors
 IN Kuroita, Takanobu; Togo, Yoshifumi; Ishibuchi, Seigo; Fujio, Masakazu; Futamura, Takashi
 PA Yoshitomi Pharmaceutical Industries, Ltd., Japan; Kuroita, Takanobu; Togo, Yoshifumi; Ishibuchi, Seigo; Fujio, Masakazu; Futamura, Takashi
 SO PCT Int. Appl., 176 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9747601	A1	19971218	WO 1997-JP1993	19970609 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9729807	A1	19980107	AU 1997-29807	19970609 <--
PRAI JP 1996-149620		19960611		
WO 1997-JP1993		19970609		
OS MARPAT 128:61522				
GI				



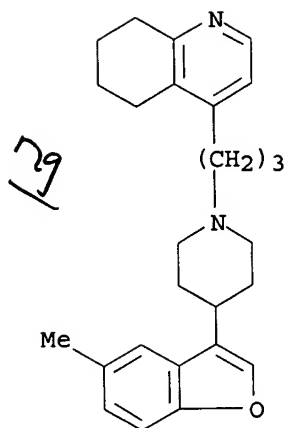
AB Fused heterocyclic compds. represented by general formula [I; X1-X2-X3 = NCR1N, CR1CR2N, NCR1CR2, CR1NCR2, NNCR1; R1, R2 = H, alkyl, OH, NH2, arylalkyl, (un)substituted aryl or heteroaryl; A = linear or branched and (un)substituted C1-4 alkyl; Y = O, S, SO, SO2, (un)substituted NH; B = linear or branched alkyl and (un)substituted C1-4 alkylene; Z = O, S, SO, SO2, (un)substituted NH, CH(OH), CO, CH2; D = linear or branched alkyl C1-8 alkylene; R = heterocyclyl, e.g., Q1; wherein Q-T = (CH2)_n, CH2CH, CH:C; wherein R7 = H, alkyl; R8 = (un)substituted arom. hydrocarbonyl or heterocyclyl] or optical isomers or pharmaceutically acceptable salts thereof are prepd. Also claimed are medicinal compns. comprising these compds. and pharmaceutically acceptable additives, and drugs comprising these compds. These compds. exert more potent blocking effects on D4 receptors than on D2 receptors. Moreover, they have high affinities for receptors other than dopamine receptors such as muscarine M1, and serotonin-2 (5-HT2) and adrenalin .alpha.1 and .alpha.2 receptors. Thus, these compds. are efficacious against not only pos. symptoms typified by hallucination and delusion characteristic of the acute stage of schizophrenia but also neg. symptoms such as emotional torpidity, abulia, and autism. In addn., they are useful as antipsychotic agents with relieved side effects such as extrapyramidal symptoms and abnormal internal secretion obsd. in assocn. with the administration of the conventional antipsychotic agents having only D2 receptor antagonism. The above compds. are usable as remedies for diseases such as schizophrenia. Thus, N-(5,6,7,8-tetrahydroquinazolin-4-yl)-2-chloroacetamide (prepn. given) and N-(4-chlorophenyl)piperazine hydrochloride were dissolved in DMF and stirred with K2CO3 and KI at room temp. for 24 h to give N-(5,6,7,8-tetrahydroquinazolin-4-yl)-2-[4-(4-chlorophenyl)piperazin-1-yl]acetamide, which was reduced by LiAlH4 in THF at room temp. for 30 min to give the title compd. (II). II and another compd. tested in vitro showed affinity for D2 and D4 receptors of nerve synapses membrane with Ki value of .gtoreq.5 nM and 0.01-1 nM, resp.

IT 200412-89-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of fused heterocyclic compds. having antagonism for D2 and D4 receptors as antipsychotics)

RN 200412-89-1 CAPLUS

CN Quinoline, 5,6,7,8-tetrahydro-4-[3-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1997:732351 CAPLUS
 DN 128:22926
 TI Preparation of piperidinone and homopiperidinone derivatives and their use
 as psychotropics
 IN Kikuchi, Chika; Koyama, Masao; Hiranuma, Toyokazu; Fukuda, Yoshimasa
 PA Meiji Seika Kaisha, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09291090	A2	19971111	JP 1996-105542	19960425 <--
PRAI	JP 1996-105542		19960425		
OS	MARPAT 128:22926				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The derivs. I (n = 1-2; X = N, CH, W = COC6H4Y-4, II, III, IV, V; Y = H, halo) and their pharmacol. acceptable salts and their intermediates VI (Z = alkoxy carbonyl, carboxy, OH, halo, alkylsulfonyloxy, arylsulfonyloxy) are claimed. Also claimed are pharmaceuticals and psychotropics contg. .gtoreq.1 selected from I and their salts as active ingredients. I show antagonism against dopamine D2 and serotonin 5-HT2 receptors, and are useful as psychotropics, e.g. antipsychotics, etc., with reduced acute extrapyramidal symptoms. Thus, 6-(2-bromoethyl)-2-piperidinone (prepn. given) was treated with 1-(1,2-benzisothiazol-3-yl)piperazine in DMF in the presence of K2CO3 at 40-60.degree. for 3 h to give 6-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-2-piperidinone. Affinities of this compd. to D2 and 5-HT2 receptors were similar to those of chlorpromazine.

IT 199436-29-8P 199436-30-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

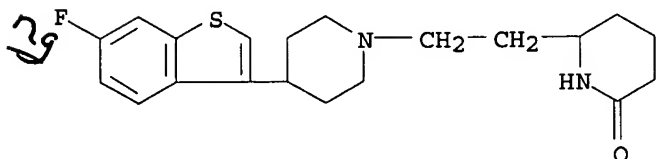
10/070,130

BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperidinone and homopiperidinone derivs. as 5-HT2 and D2 receptor antagonists and psychotropics contg. them)

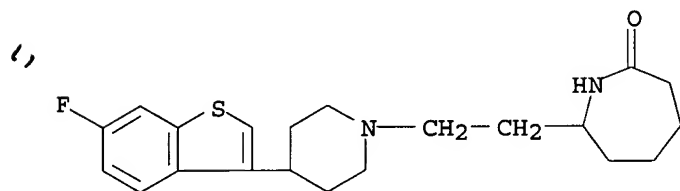
RN 199436-29-8 CAPLUS

CN 2-Piperidinone, 6-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-
(9CI) (CA INDEX NAME)



RN 199436-30-1 CAPLUS

CN 2H-Azepin-2-one, 7-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]hexahydro- (9CI) (CA INDEX NAME)



L10 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:678677 CAPLUS

DN 127:331488

TI Preparation of perhydrobenzimidazolone derivatives as antipsychotics

IN Fukuda, Yoshimasa; Nakatani, Yuko; Sasaki, Toshiro; Akiyama, Yoshihisa; Hiranuma, Toyokazu

PA Meiji Seika Kaisha, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

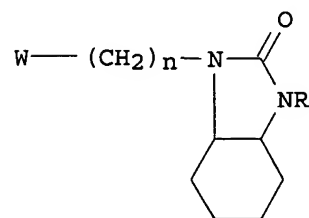
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09268188	A2	19971014	JP 1996-82183	19960404 <--
PRAI	JP 1996-82183		19960404		
OS	MARPAT 127:331488				
GI					



I

AB The title compds. I [R = H, acyl, etc.; n = 1 - 5; W = benzisoxazolylpiperidine (generic structure given), etc.] are prepd. In a test for anti-methamphetamine activity in mice, I [R = H; n = 2; W = 4-(6-fluoro-1-benzothiophen-3-yl)-1-piperidinyl] (II) (prepn. given) showed ED50 of 0.49 mg/kg i.p., vs. ED50 of 0.2 mg/kg i. p. for haloperidol. In a test for catalepsy-causing activity in mice, II showed ED50 of 9.2 mg/Kg i.p., vs. ED50 of 1.3 mg/Kg i.p. shown by haloperidol.

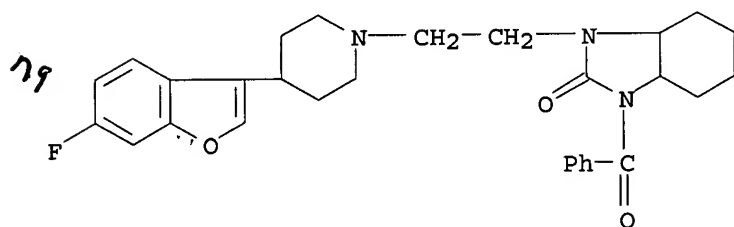
IT 198022-36-5P 198022-37-6P 198022-38-7P

198022-39-8P 198022-40-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of perhydrobenzimidazolone derivs. as antipsychotics)

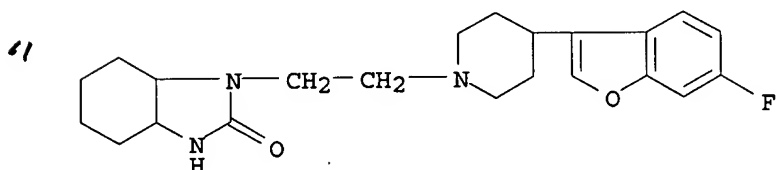
RN 198022-36-5 CAPLUS

CN 2H-Benzimidazol-2-one, 1-benzoyl-3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]octahydro- (9CI) (CA INDEX NAME)



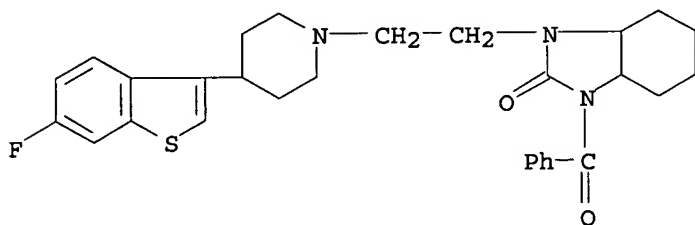
RN 198022-37-6 CAPLUS

CN 2H-Benzimidazol-2-one, 1-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]octahydro- (9CI) (CA INDEX NAME)



RN 198022-38-7 CAPLUS

CN 2H-Benzimidazol-2-one, 1-benzoyl-3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]octahydro- (9CI) (CA INDEX NAME)

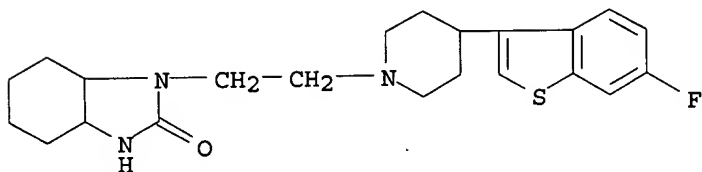


RN 198022-39-8 CAPLUS

CN 2H-Benzimidazol-2-one, 1-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]octahydro- (9CI) (CA INDEX NAME)

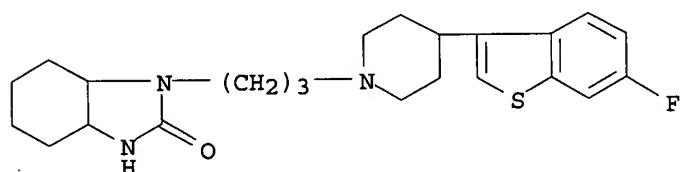
10/070,130

piperidinyl]ethyl]octahydro- (9CI) (CA INDEX NAME)



RN 198022-40-1 CAPLUS

CN 2H-Benzimidazol-2-one, 1-[3-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]propyl]octahydro- (9CI) (CA INDEX NAME)



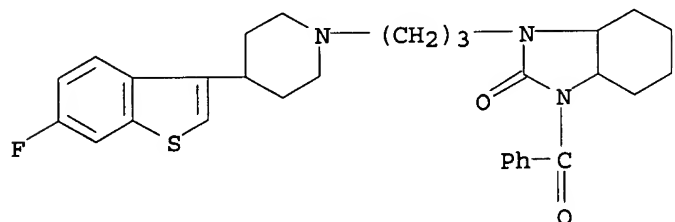
IT 198022-42-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of perhydrobenzimidazolone derivs. as antipsychotics)

RN 198022-42-3 CAPLUS

CN 2H-Benzimidazol-2-one, 1-benzoyl-3-[3-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]propyl]octahydro- (9CI) (CA INDEX NAME)



L10 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:618071 CAPLUS

DN 127:262702

TI Preparation of fused heterocyclic compounds and pharmaceutical applications thereof

IN Tanaka, Hiroshi; Kuroita, Takanobu; Togo, Yoshifumi; Ishibuchi, Seigo; Fujio, Masakazu; Futamura, Takashi; et al.

PA Yoshitomi Pharmaceutical Industries, Ltd., Japan; Tanaka, Hiroshi; Kuroita, Takanobu; Togo, Yoshifumi; Ishibuchi, Seigo; Fujio, Masakazu; Futamura, Takashi

SO PCT Int. Appl., 185 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

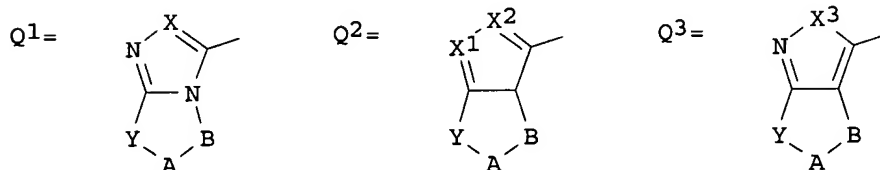
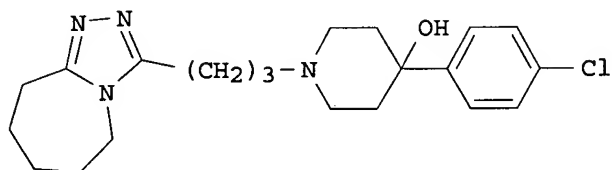
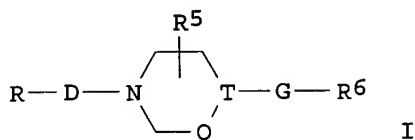
FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

 PI WO 9732848 A1 19970912 WO 1997-JP641 19970303 <--
 W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS,
 JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG,
 SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
 GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,
 ML, MR, NE, SN, TD, TG
 AU 9718132 A1 19970922 AU 1997-18132 19970303 <--
 EP 885883 A1 19981223 EP 1997-903647 19970303 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 US 6187774 B1 20010213 US 1998-142203 19980903
 PRAI JP 1996-46271 A 19960304
 WO 1997-JP641 W 19970303
 OS MARPAT 127:262702
 GI



AB Fused heterocyclic compds. represented by general formula [I; R = Q1, Q2, Q3, etc.; when R = Q1, X = N or CR2a (R2a = H, alkyl); when R = Q1, X1 = NR3 (R3 = H, alkyl, acyl, aryl) and X2 = N, X1 = O and X2 = N, or X1 = NR8 (R8 = H, acyl, alkyl) and X2 = CH; when R = Q3, X3 = NR3 (R3 = same as above) or O; Y, B = (un)substituted C1-4 linear or branched alkylene; A = absent, O, S, SO, SO2, (un)substituted NH; D = absent, C1-8 linear or branched alkyl alkylene; Q-T = CH, CH2N, CH2CH2N, CH2CR4 (R4 = H, OH, alkyl, alkoxy), CH:C; G = absent, C1-8 linear or branched alkylene, CO; R5 = H, alkyl; R6 = (un)substituted aryl, (un)fused heteroaryl] or optical isomers thereof or pharmaceutically acceptable salts thereof, which show affinity (antagonism) for dopamine D2 and serotonin 2 receptors and improve the lowered function of NMDA receptors, are prepd. Claimed are

pharmaceutical compns. contg. the compds. of formula I, the optical isomers or pharmaceutically acceptable salts thereof, and pharmaceutically acceptable additives and medicines contg. the compds. of formula I, the optical isomers thereof, or the pharmaceutically acceptable salts thereof. These compds. are useful as central nervous system agents, in particular as antipsychotic agents efficacious against not only pos. symptoms centering on the hallucination, delusion and the like peculiar to the acute stage of schizophrenia, but also neg. symptoms such as emotional torpidity, abulia and autism. They are also expected as highly safe antipsychotic agents reduced in the side effects, such as extrapyramidal symptoms or abnormal internal secretion, obsd. in the case of administration of conventional antipsychotic agents having dopamine D2 receptor blocking effects. Thus these compds. can be used as remedies for diseases including schizophrenia. Thus, 3-[4-(4-chlorophenyl)-4-hydroxypiperidin-1-yl]propylcarbohydrazide was added to a stirred soln. of 1-aza-2-methylthio-1-cycloheptene in butanol and refluxed for 3 h to give a triazoloazepine deriv. (II).

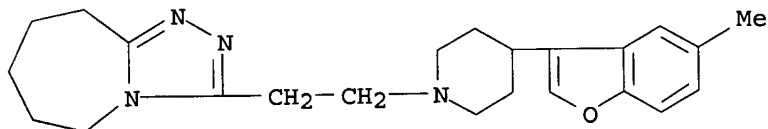
IT 196099-68-0P 196099-96-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of fused heterocyclic compds. having affinity to dopamine D2 and serotonin 2 receptors as antipsychotics for treatment of schizophrenia)

RN 196099-68-0 CAPLUS

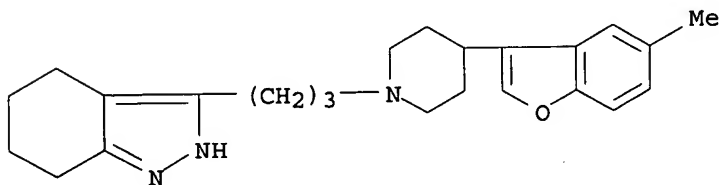
CN 5H-1,2,4-Triazolo[4,3-a]azepine, 6,7,8,9-tetrahydro-3-[2-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 196099-96-4 CAPLUS

CN 2H-Indazole, 4,5,6,7-tetrahydro-3-[3-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]propyl]-. (9CI) (CA INDEX NAME)



L10 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:488747 CAPLUS

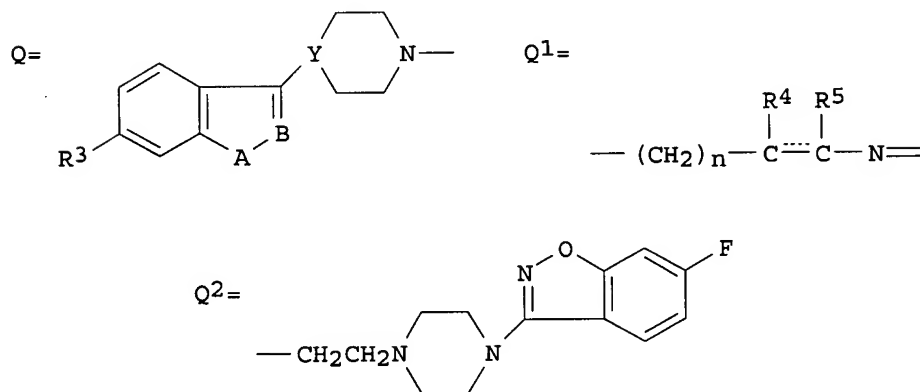
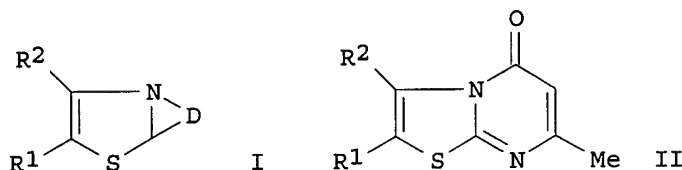
DN 125:142775

TI Preparation of bicyclic thiazole compounds as psychotropic agents

IN Fukuda, Yoshimasa; Hasegawa, Toshifumi; Nakatani, Yuuko; Murase, Kenshi;
Fuji, Kazuyuki
PA Meiji Seika Kabushiki Kaisha, Japan
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9616968	A1	19960606	WO 1995-JP2412	19951127 <--
	W: CN, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 794185	A1	19970910	EP 1995-937193	19951127 <--
	R: CH, DE, ES, FR, GB, LI				
PRAI	JP 1994-291054		19941125		
	WO 1995-JP2412		19951127		
OS	MARPAT 125:142775				
GI					



AB The title compds. [I; one of R1 and R2 represents W-(CH2)m (wherein m = an integer of from 1 to 4), and the other represents hydrogen or optionally substituted lower alkyl; W represents a group represented by formula Q (wherein R3 = H or halo; A = oxygen or sulfur; B, Y= N or CH); and the cyclic structure D represents one member selected from among those represented by formulas Q1, COCR4:CR5N:, CR4:NCR5:, and CR4:CR5CON: (whereas n = an integer of 0 to 2; R4, R5 = H, lower alkyl, HO, alkoxy, alkoxy carbonyl, or aminocarbonyl; the solid line accompanied by the dotted line represents either a single bond or a double bond)] pharmaceutically acceptable salts thereof, which have weak extrapyramidal (catalepsy-inducing) activity and are useful for the treatment of mental disorders (dopamine D2 and serotonin 5-HT receptor-related central nervous system diseases) such as neurosis, schizophrenia, anxiety, and depression are prepd. Thus, 2-amino-5-[2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)-1-

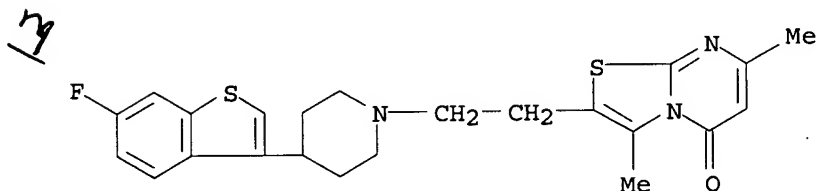
piperazinyl]ethyl]-4-methylthiazole and Et acetoacetate were heated in polyphosphoric acid at 130.degree. for 20 min with stirring, poured into water, made pH 9 with 1 N aq. NaOH, and extd. with CH₂Cl₂ to give 54% a thiazolo[3,2-a]pyrimidin-5-one deriv. (II; R₁ = Q₂, R₃ = Me). The latter compd. and II (R₁ = H, R₃ = Q₂) showed ED₅₀ of 0.07 and 0.04 mg/kg i.p., reps., for inhibiting the methamphetamine-induced increase in spontaneous movement of mice as compared to 0.2 and 1.1. mg/kg i.p. for haloperidol and chlorpromazine, resp.

IT 179820-30-5P 179820-31-6P 179820-34-9P
179820-35-0P 179820-44-1P 179820-46-3P
179820-50-9P 179820-51-0P 179820-52-1P
179820-54-3P 179820-55-4P 179820-56-5P
179820-57-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of bicyclic thiazole compds. as psychotropic agents for treating central nervous system diseases)

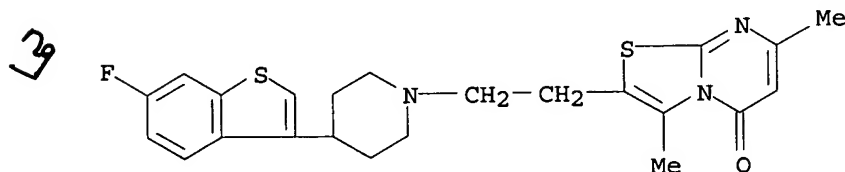
RN 179820-30-5 CAPLUS

CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-3,7-dimethyl- (9CI) (CA INDEX NAME)



RN 179820-31-6 CAPLUS

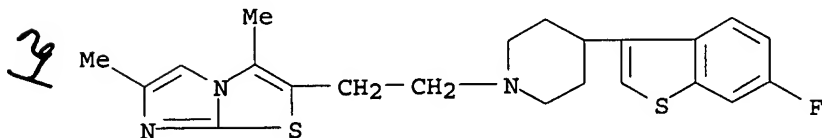
CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-3,7-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

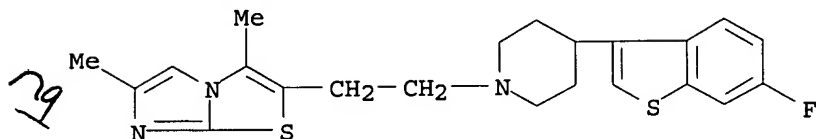
RN 179820-34-9 CAPLUS

CN Imidazo[2,1-b]thiazole, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-3,6-dimethyl- (9CI) (CA INDEX NAME)



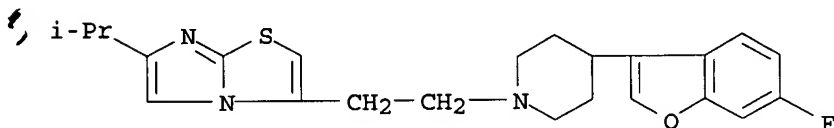
10/070,130

RN 179820-35-0 CAPLUS
CN Imidazo[2,1-b]thiazole, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-3,6-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

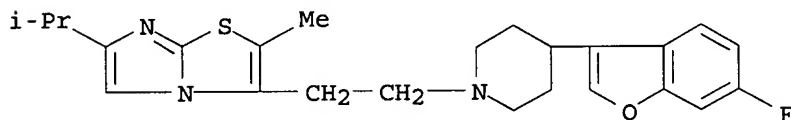


● HCl

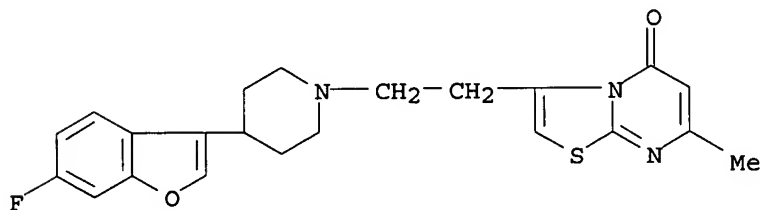
RN 179820-44-1 CAPLUS
CN Imidazo[2,1-b]thiazole, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-6-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 179820-46-3 CAPLUS
CN Imidazo[2,1-b]thiazole, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-2-methyl-6-(1-methylethyl)- (9CI) (CA INDEX NAME)

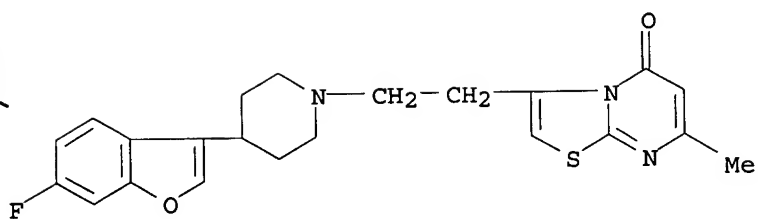


RN 179820-50-9 CAPLUS
CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-7-methyl- (9CI) (CA INDEX NAME)



RN 179820-51-0 CAPLUS
CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-7-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

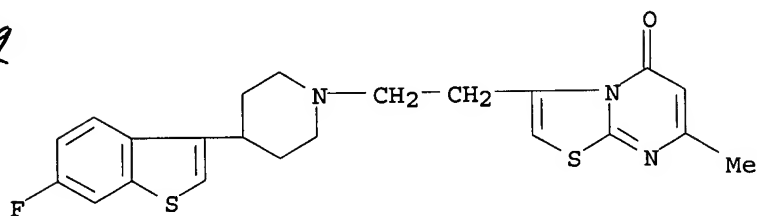
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● HCl

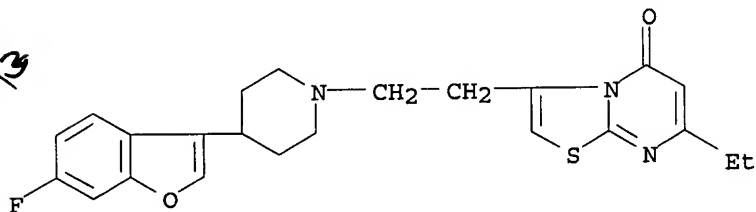
RN 179820-52-1 CAPLUS
 CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-7-methyl- (9CI) (CA INDEX NAME)

29



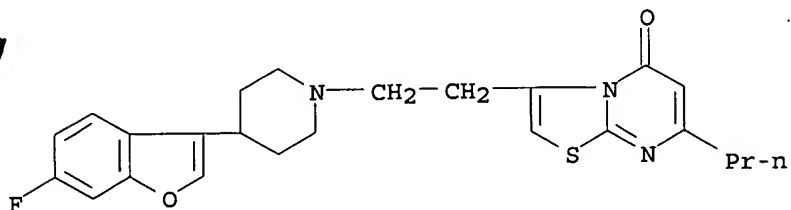
RN 179820-54-3 CAPLUS
 CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 7-ethyl-3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

13



RN 179820-55-4 CAPLUS
 CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-7-propyl- (9CI) (CA INDEX NAME)

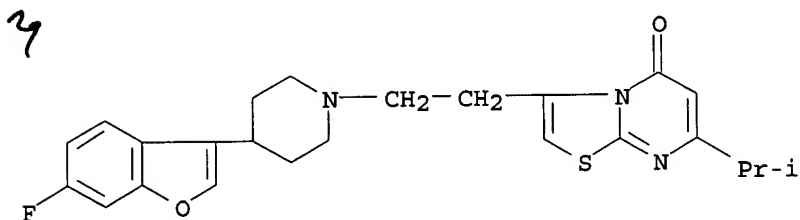
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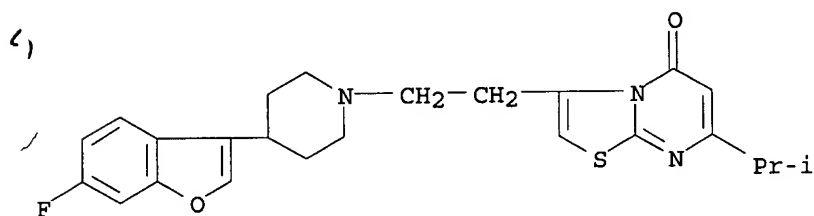
RN 179820-56-5 CAPLUS

10/070,130

CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-7-(1-methylethyl)- (9CI) (CA INDEX NAME)



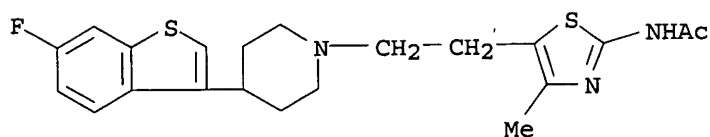
RN 179820-57-6 CAPLUS
CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-7-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



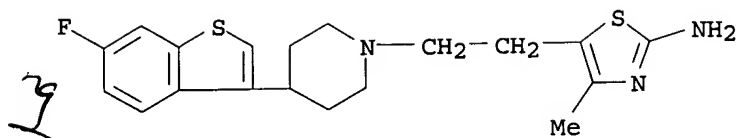
● HCl

IT 173772-73-1P 179820-66-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of bicyclic thiazole compds. as psychotropic agents for treating central nervous system diseases)

RN 173772-73-1 CAPLUS
CN Acetamide, N-[5-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4-methyl-2-thiazolyl]- (9CI) (CA INDEX NAME)



RN 179820-66-7 CAPLUS
CN 2-Thiazolamine, 5-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)



L10 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1996:452766 CAPLUS
 DN 125:167962
 TI Condensed thiophene compounds as D2 and 5-HT2 antagonists and 5-HT1A agonists useful as antipsychotic drugs
 IN Nakao, Tohru; Ono, Yuji; Bougauchi, Masahiro; Morimoto, Yasuto
 PA Yoshitomi Pharmaceutical Industries, Ltd., Japan
 SO U.S., 38 pp., Cont.-in-part of U.S. Ser. No. 107,564, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5532240	A	19960702	US 1994-272320	19940708 <--
	CA 2104371	AA	19930627	CA 1992-2104371	19921224 <--
	US 5691330	A	19971125	US 1995-478843	19950607 <--
PRAI	JP 1991-359547		19911226		
	JP 1992-309388		19921023		
	US 1993-107564		19930818		
	US 1994-272320		19940708		
OS	MARPAT 125:167962				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A condensed thiophene compd. I or a pharmaceutically acceptable salt thereof, wherein ring S represents a fused thiophene ring (e.g., II); R1 represents hydrogen, halogen, alkyl, etc.; R2 represents hydrogen, alkyl, acyl, etc.; G represents CH2, CH(OH), CO, etc.; Q represents alkylene; T represents N(Rb)(Rc) (wherein Rb, Rc represents each alkyl etc.; or alternatively Rb and Rc are combined together to form cyclic amino); D represents CH2 or S; A and B represent each carbonyl or thiocarbonyl, or are null; and m and n represent each 0, 1 to 4, provided that m + n represents an integer of 4 or less, is useful as an antipsychotic drug having a reduced extrapyramidal side effect. Thus, e.g., 2,3-dihydrothieno[3,2-f][1,4]thiazepin-5(4H)-one (III) was prepd. by Beckmann rearrangement starting from thiophene, sulfur, and 3-bromopropionic acid; acylation of III with 4-chlorobutyryl chloride/AlCl3 afforded 7-(4-chlorobutyryl)-2,3-dihydrothieno[3,2-f][1,4]thiazepin-5(4H)-one (IV); alkylation of 4-(1,2-benzisothiazol-3-yl)piperazine hydrochloride with IV afforded 7-[4-[4-(1,2-benzisothiazol-3-yl)piperazin-1-yl]butyryl]-2,3-dihydrothieno[3,2-f][1,4]thiazepin-5(4H)-one oxalate (V.oxalate). 2-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)piperidin-1-yl]ethyl]-4,6,7,8-tetrahydro-5H-thieno[3,2-b]azepin-5-one (VI), prepd. similarly, exhibited affinities for the dopamine 2, serotonin 2, and serotonin 1A receptors of Ki = 0.065, 0.32, and 1.6 nM, resp., and possessed D2 antagonistic, 5-HT2 antagonistic and 5-HT1A agonistic

activities according to the inhibition of apomorphine-induced hyperactivity, ergometrine-induced head-twitches and forskolin-induced adenylate cyclase activity, resp. Pharmaceutical formulations were given.

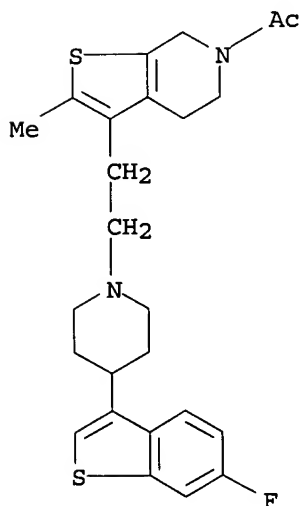
IT 153024-76-1P 153024-77-2P 169806-74-0P
 169806-94-4P 169806-97-7P 169806-98-8P
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 180268-00-2P 180268-01-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(condensed thiophene compds. as D2 and 5-HT2 antagonists and 5-HT1A agonists useful as antipsychotic drugs)

RN 153024-76-1 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)



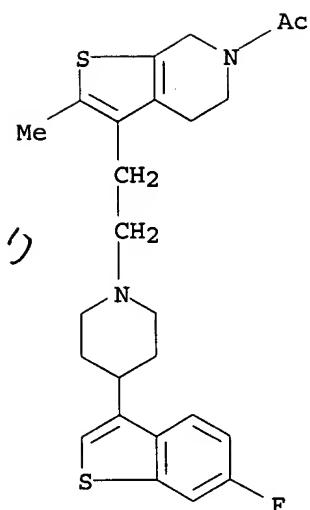
RN 153024-77-2 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 153024-76-1

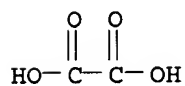
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CM 2

CRN 144-62-7

CMF C2 H2 O4



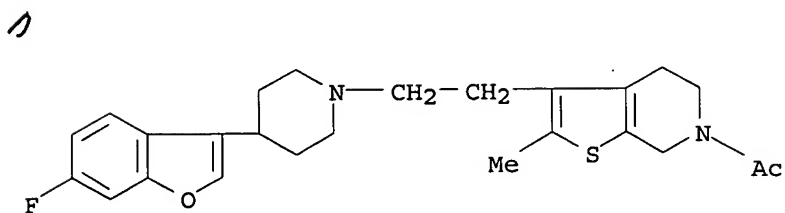
RN 169806-74-0 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl-, ethanedioate (1:1) (9CI)
(CA INDEX NAME)

CM 1

CRN 169806-73-9

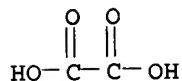
CMF C25 H29 F N2 O2 S



CM 2

CRN 144-62-7

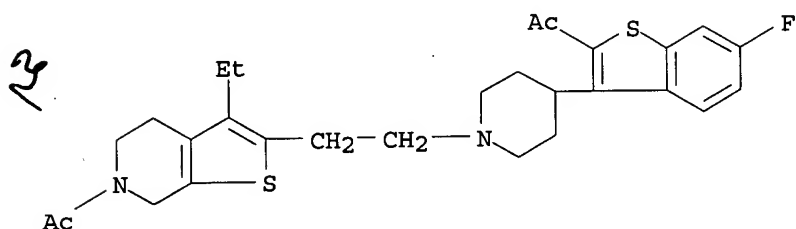
CMF C2 H2 O4



RN 169806-94-4 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(2-acetyl-6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, ethanedioate (1:1)
 (9CI) (CA INDEX NAME)

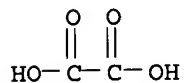
CM 1

CRN 169806-93-3
 CMF C28 H33 F N2 O2 S2



CM 2

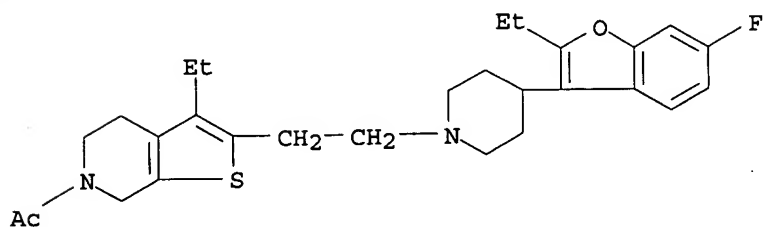
CRN 144-62-7
 CMF C2 H2 O4



RN 169806-97-7 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(2-ethyl-6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, ethanedioate (1:1)
 (9CI) (CA INDEX NAME)

CM 1

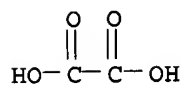
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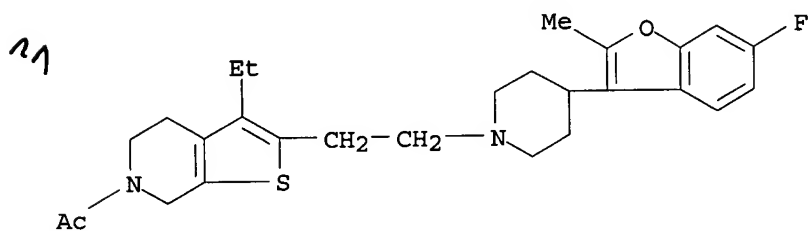
CM 2

CRN 144-62-7

CMF C2 H2 O4

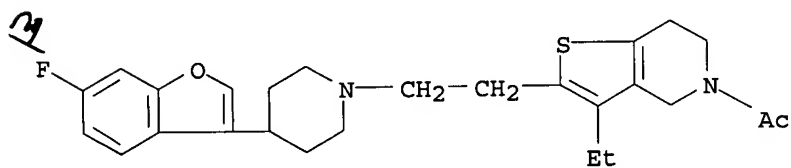


RN 169806-98-8 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluoro-2-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



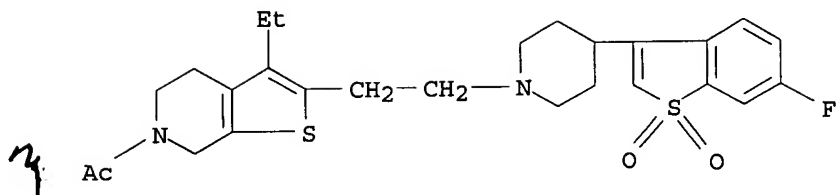
● HCl

RN 169807-01-6 CAPLUS
 CN Thieno[3,2-c]pyridine, 5-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



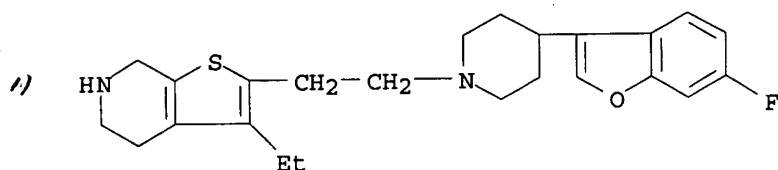
● HCl

RN 169807-04-9 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluoro-1,1-dioxidobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



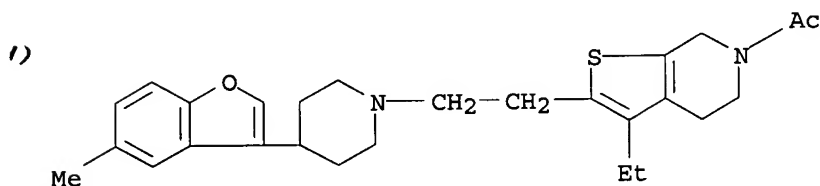
● HCl

RN 169807-05-0 CAPLUS
 CN Thieno[2,3-c]pyridine, 3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, dihydrochloride (9CI) (CA INDEX NAME)



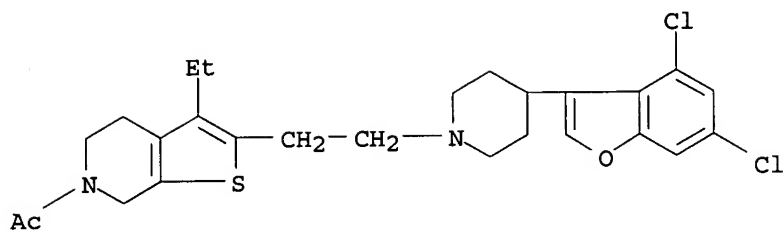
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RN 169807-06-1 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

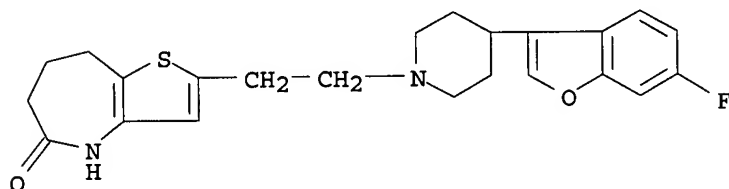
RN 169807-07-2 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(4,6-dichloro-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

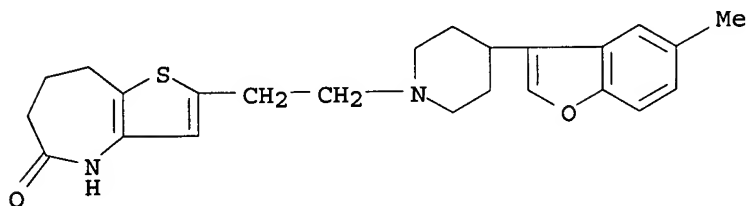
RN 169807-08-3 CAPLUS

CN 5H-Thieno[3,2-b]azepin-5-one, 2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



RN 169807-09-4 CAPLUS

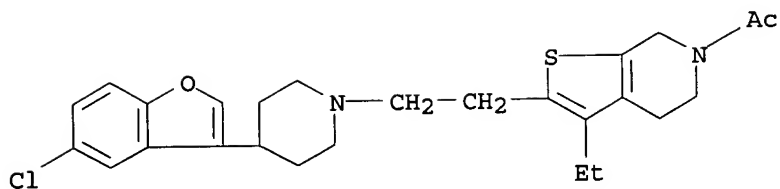
CN 5H-Thieno[3,2-b]azepin-5-one, 4,6,7,8-tetrahydro-2-[2-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



RN 169807-11-8 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5-chloro-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130

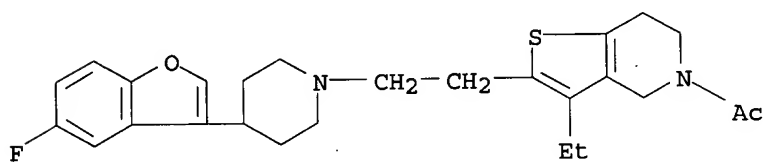


● HCl

RN 169807-13-0 CAPLUS
CN Thieno[3,2-c]pyridine, 5-acetyl-3-ethyl-2-[2-[4-(5-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

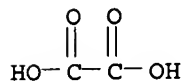
CM 1

CRN 169807-12-9
CMF C26 H31 F N2 O2 S



CM 2

CRN 144-62-7
CMF C2 H2 O4

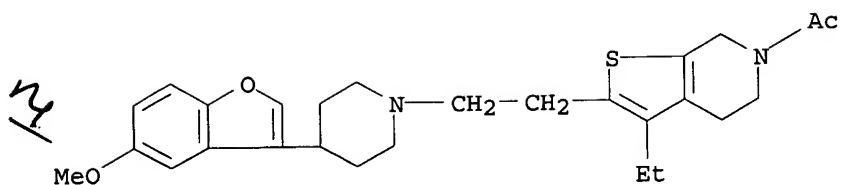


RN 169807-15-2 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methoxy-3-benzofuranyl)-1-piperidinyl]ethyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 169807-14-1
CMF C27 H34 N2 O3 S

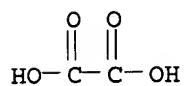
10/070,130



CM 2

CRN 144-62-7

CMF C2 H2 O4



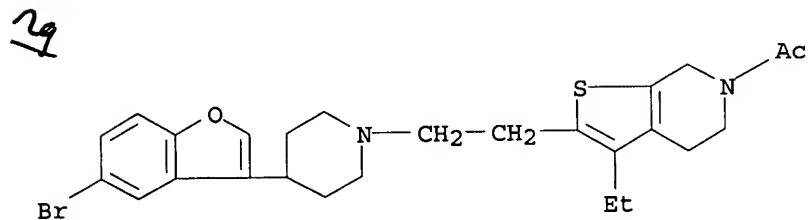
RN 169807-17-4 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5-bromo-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, ethanedioate (1:1) (9CI)
(CA INDEX NAME)

CM 1

CRN 169807-16-3

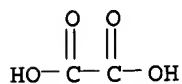
CMF C26 H31 Br N2 O2 S



CM 2

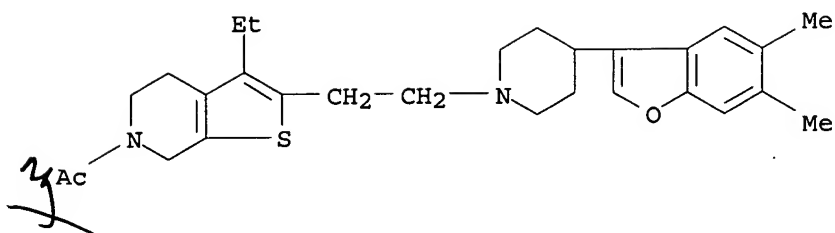
CRN 144-62-7

CMF C2 H2 O4



RN 169807-18-5 CAPLUS

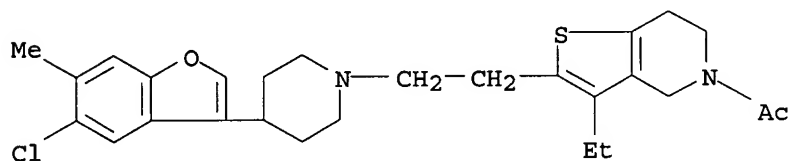
CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5,6-dimethyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI)
(CA INDEX NAME)



● HCl

RN 169807-23-2 CAPLUS

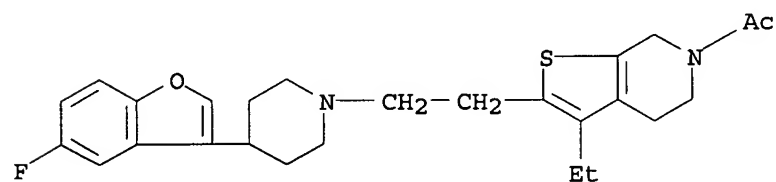
CN Thieno[3,2-c]pyridine, 5-acetyl-2-[2-[4-(5-chloro-6-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 169807-24-3 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(5-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

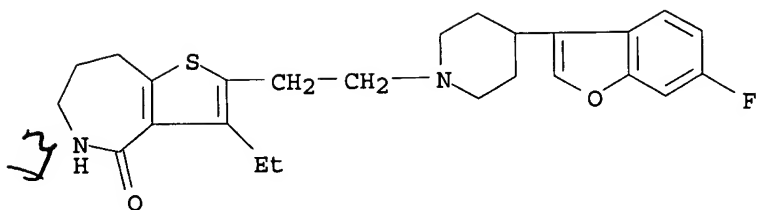


● HCl

RN 169807-25-4 CAPLUS

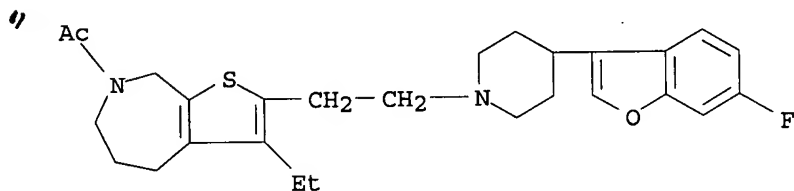
CN 4H-Thieno[3,2-c]azepin-4-one, 3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130



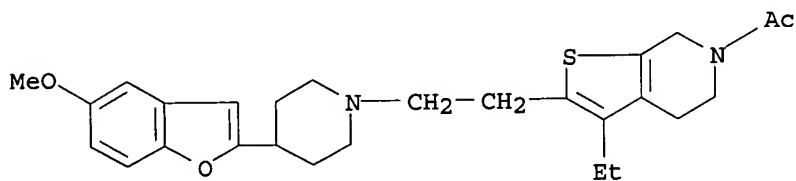
● HCl

RN 169807-26-5 CAPLUS
CN 4H-Thieno[2,3-c]azepine, 7-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

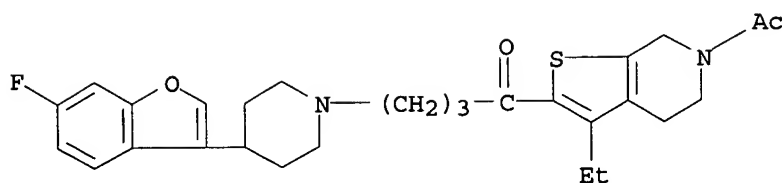
RN 169807-28-7 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methoxy-2-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

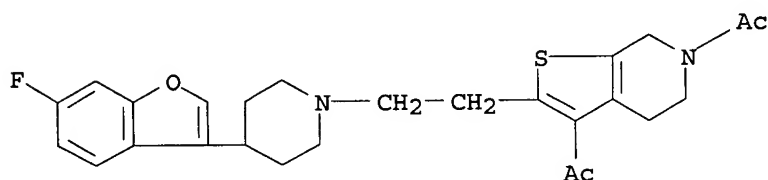
RN 169807-29-8 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[4-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]-1-oxobutyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130



● HCl

RN 169807-30-1 CAPLUS
CN Thieno[2,3-c]pyridine, 3,6-diacetyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

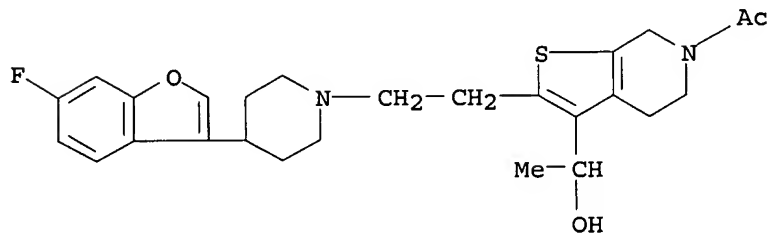


● HCl

RN 169807-32-3 CAPLUS
CN Thieno[2,3-c]pyridine-3-methanol, 6-acetyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-.alpha.-methyl-, ethanedioate (1:1) (salt) (9CI) (CA INDEX NAME)

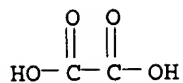
CM 1

CRN 169807-31-2
CMF C26 H31 F N2 O3 S

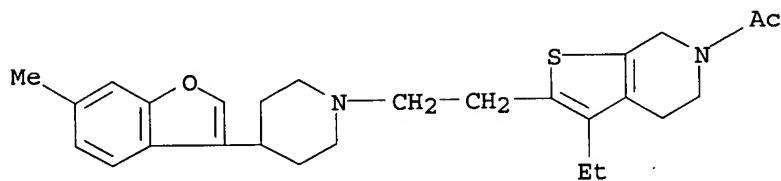


CM 2

CRN 144-62-7
CMF C2 H2 O4

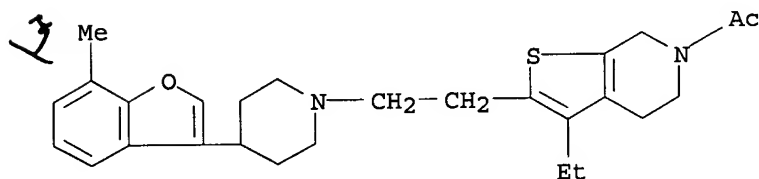


RN 169807-33-4 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(6-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

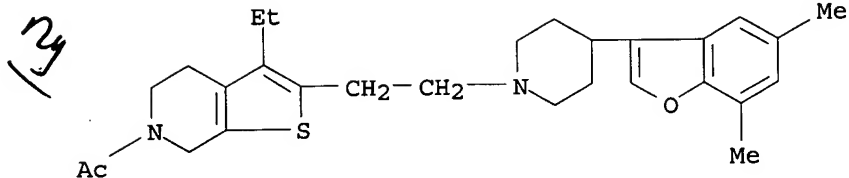
RN 169807-36-7 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(7-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

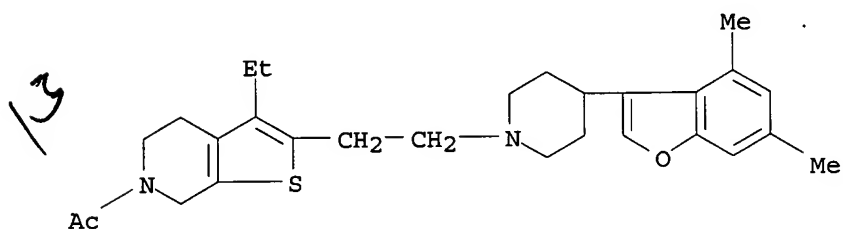
RN 169807-37-8 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5,7-dimethyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130



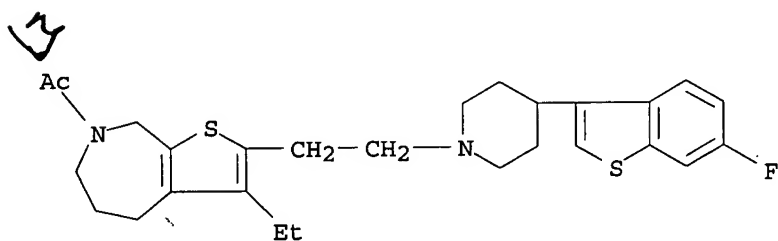
● HCl

RN 169807-38-9 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(4,6-dimethyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI)
(CA INDEX NAME)



● HCl

RN 180267-80-5 CAPLUS
CN 4H-Thieno[2,3-c]azepine, 7-acetyl-3-ethyl-2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



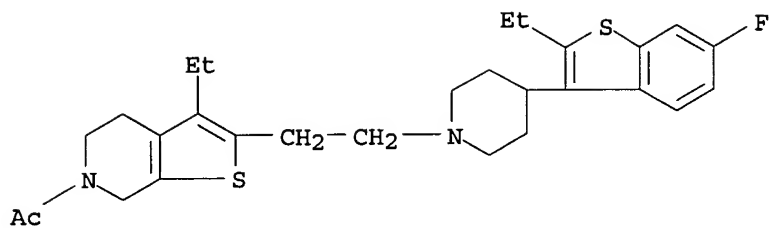
● HCl

RN 180267-87-2 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(2-ethyl-6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

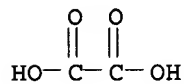
10/070,130

CRN 169806-95-5
CMF C28 H35 F N2 O S2

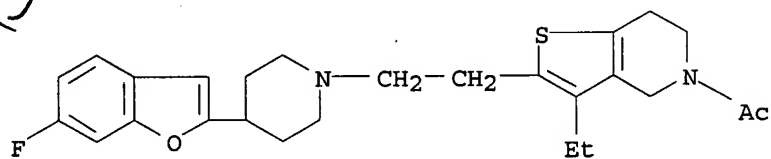


CM 2

CRN 144-62-7
CMF C2 H2 O4



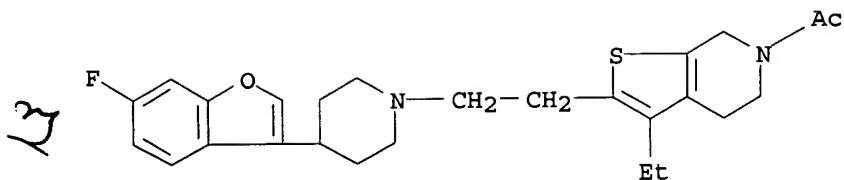
RN 180267-88-3 CAPLUS
CN Thieno[3,2-c]pyridine, 5-acetyl-3-ethyl-2-[2-[4-(6-fluoro-2-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

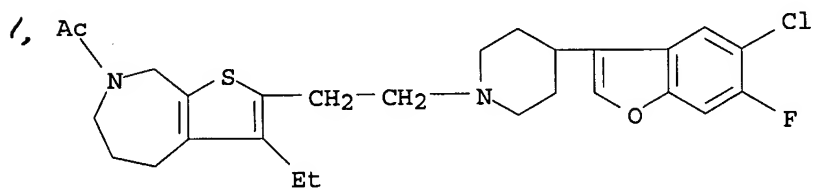
RN 180267-89-4 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, dihydrochloride (9CI) (CA INDEX NAME)

10/070,130



● 2 HCl

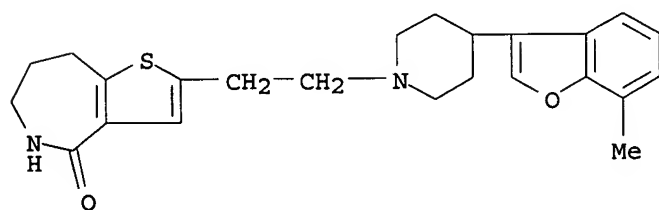
RN 180267-92-9 CAPLUS
CN 4H-Thieno[2,3-c]azepine, 7-acetyl-2-[2-[4-(5-chloro-6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

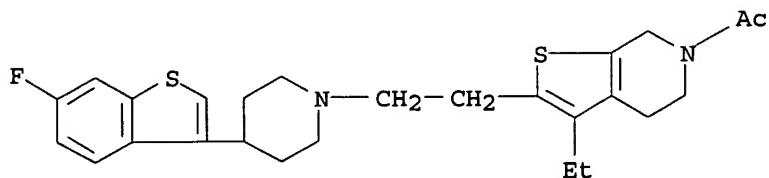
RN 180267-93-0 CAPLUS
CN 4H-Thieno[3,2-c]azepin-4-one, 5,6,7,8-tetrahydro-2-[2-[4-(7-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

5,

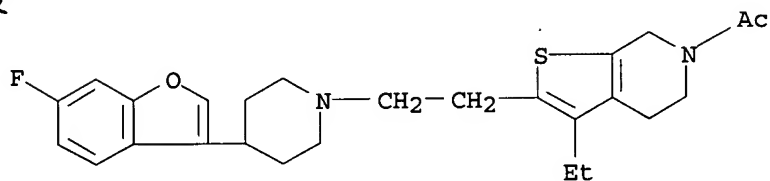


RN 180267-94-1 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)

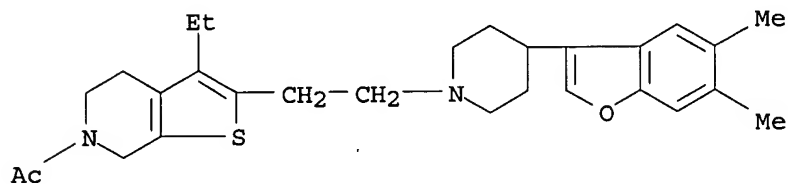
6,



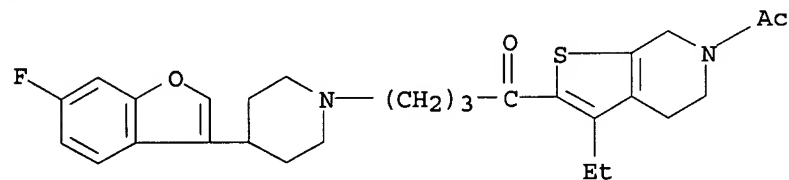
RN 180267-95-2 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)



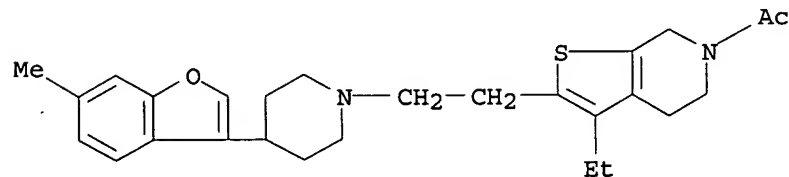
RN 180267-96-3 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5,6-dimethyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)



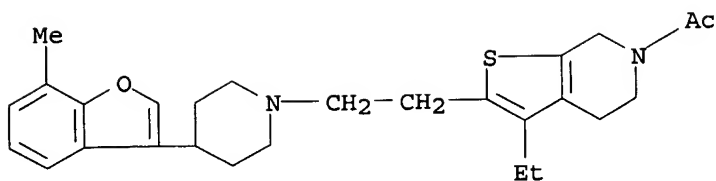
RN 180267-97-4 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[4-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]-1-oxobutyl]-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)



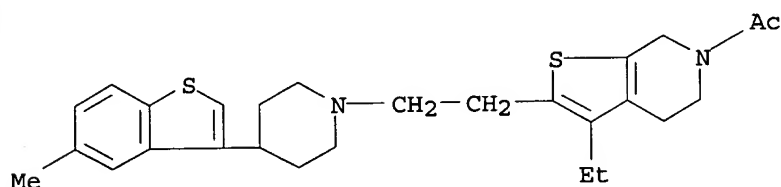
RN 180267-98-5 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(6-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



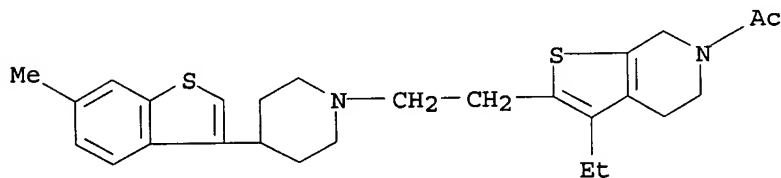
RN 180267-99-6 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(7-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



RN 180268-00-2 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

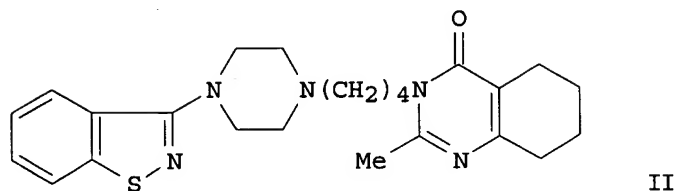
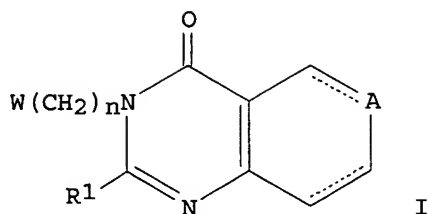


RN 180268-01-3 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(6-methylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1996:294880 CAPLUS
 DN 124:343322
 TI Preparation of quinazolinone derivatives as antipsychotics with weak extrapyramidal effects
 IN Fukuda, Yoshimasa; Nakatani, Juko; Hasegawa, Toshibumi; Myashiro, Mio; Yamashita, Noryuki
 PA Meiji Seika Co, Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08027149	A2	19960130	JP 1994-157624	19940708 <--
PRAI	JP 1994-157624		19940708		
OS	MARPAT 124:343322				
GI					



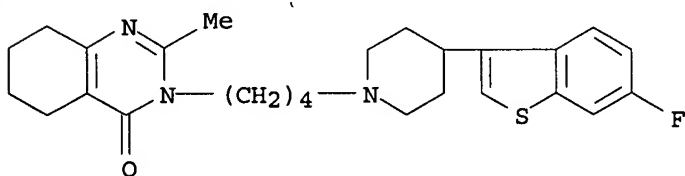
AB The title compds. I [$n = 1 - 5$; $R_1 = H$, methyl; dotted line indicates single or double bond; $A = CH_2$, NR_3 ($R_3 = H$, etc.), CH , N ; $W =$ heterocyclic moiety (structures given)] are prepd. In a test for antipsychotic effect using mice, the title compd. II (prepn. given) showed ED_{50} of 0.38 mg/Kg i.p., vs. ED_{50} of 0.16 mg/Kg i.p. for haloperidol, and ED_{50} of 1.05 mg/Kg i.p. for chlorpromazine. In a test for cataleptogenic effects using mice, II showed ED_{50} of 38.4 mg/Kg i.p., vs. ED_{50} of 1.3 mg/Kg i.p. for haloperidol, and ED_{50} of 6.2 mg/Kg i.p. for chlorpromazine.

IT **176493-71-3P 176493-72-4P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of quinazolinone derivs. as antipsychotics with weak extrapyramidal effects)

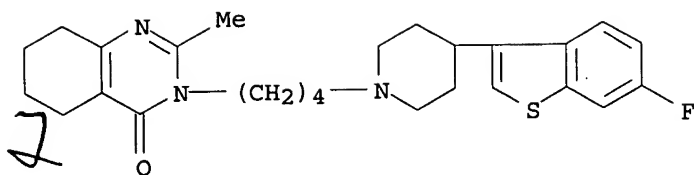
RN 176493-71-3 CAPLUS

CN 4(3H)-Quinazolinone, 3-[4-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]butyl]-5,6,7,8-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)



RN 176493-72-4 CAPLUS

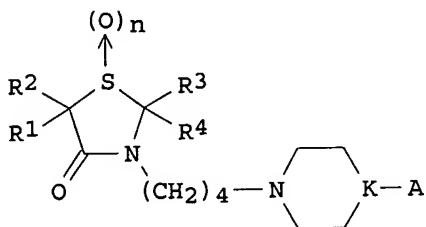
CN 4(3H)-Quinazolinone, 3-[4-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]butyl]-5,6,7,8-tetrahydro-2-methyl-, monohydrochloride (9CI)
(CA INDEX NAME)



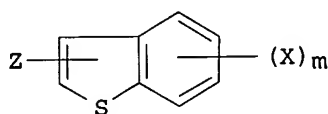
● HCl

L10 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1996:271513 CAPLUS
 DN 124:317151
 TI 3-(4-(1-substituted-4-piperazinyl)butyl)-4-thiazolidinone and related compounds
 IN Hrib, Nicolas Joseph; Jurcak, John Gerard
 PA Hoechst-Roussel Pharmaceuticals Incorporated, USA
 SO Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 699675	A2	19960306	EP 1995-113757	19950901 <--
	EP 699675	A3	19970115		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 08176151	A2	19960709	JP 1995-259162	19950901 <--
PRAI	US 1994-299880	A	19940901		
OS	MARPAT 124:317151				
GI					



I



II

AB There are disclosed compds. of the formula I ($n = 0, 1, 2$; $A = II$; $X = H$, halo, loweralkyl, OH, NO₂, loweralkoxy, amino, CN, CF₃, methylthio; $Z =$ connecting site; $K = N, CH$; $m = 1, 2$; $R_1, R_2 = H$, loweralkyl, COHMe₂, CFMe₂, aryl except what when R_1 is COHMe₂, CFMe₂ or aryl, R_2 is H, or alternatively $R_1 + R_2$ taken together with the carbon atom to which they are attached form a cyclopentane, cyclopentane, cyclohexane, cycloheptane, pyran, thiopyran, indan or piperidine ring; $R_3, R_4 = H$, loweralkyl, or alternatively $R_3 + R_4$ taken together with the carbon atom to which they are attached form a cyclopentane, cyclohexane, cycloheptane, pyran, thiopyran, pyrrolidine or piperidine ring, the term aryl signifying an unsubstituted Ph group or a Ph group substituted with 1, 2 or 3 substituents each of which being independently loweralkyl, loweralkoxy,

10/070,130

OH, halo, loweralkylthio, CN, amino or CF₃) which are useful as antipsychotic, analgesic, anticonvulsant and anxiolytic agents.

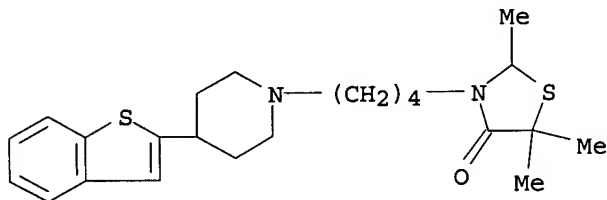
IT 176107-11-2P 176107-13-4P 176107-14-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3-(4-(1-substituted-4-piperazinyl)butyl)-4-thiazolidinone and related compds.)

RN 176107-11-2 CAPLUS

CN 4-Thiazolidinone, 3-[4-(4-benzo[b]thien-2-yl-1-piperidinyl)butyl]-2,5,5-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

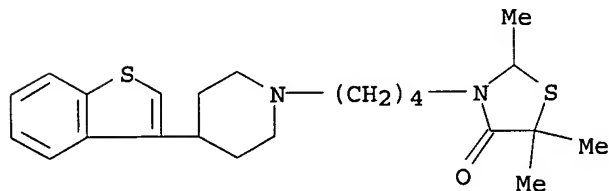
RN 176107-13-4 CAPLUS

CN 4-Thiazolidinone, 3-[4-(4-benzo[b]thien-3-yl-1-piperidinyl)butyl]-2,5,5-trimethyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 176107-12-3

CMF C23 H32 N2 O S2

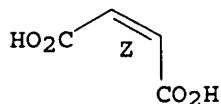


CM 2

CRN 110-16-7

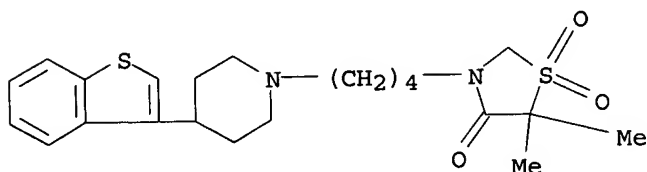
CMF C4 H4 O4

Double bond geometry as shown.



RN 176107-14-5 CAPLUS

CN 4-Thiazolidinone, 3-[4-(4-benzo[b]thien-3-yl-1-piperidinyl)butyl]-5,5-dimethyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



L10 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:126572 CAPLUS

DN 124:176145

TI Preparation of 5-(pyridylalkyl)- or 5-(piperazinylalkyl)thiazole derivatives as psychotropics and cardiovascular agents

IN Hasegawa, Toshifumi; Nakatani, Juko; Egawa, Takashi; Murase, Takeshi; Fukuda, Yoshimasa

PA Meiji Seika Co, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07258252	A2	19951009	JP 1994-45781	19940316 <--
PRAI	JP 1994-45781		19940316		
OS	MARPAT 124:176145				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; n = 1-4; R1 = H, NR10R11; wherein R10 = H, acyl, (un)substituted alkyl, cycloalkyl; R2 = H, alkyl; W = Q, Q1, Q2; X = H, halo; Y = O, S; Z = CH, N], which have potent psychotropic activity and high affinity to receptors (e.g. D2, 5HT2, and .alpha.1 receptors) related to cardiovascular systems and are useful as anti-schizophrenic, anxiolytic, and antidepressant medicaments, are prepd. Thus, 1-(1,2-benzisothiazol-3-yl)piperazine 100, 4-methyl-5-(2-p-toluenesulfonyloxyethyl)thiazole 128, and K2CO3 95 mg were suspended in DMSO and stirred at room temp. for 12 h to give the title compd. (II). II showed ED50 of 1.2 mg/kg i.p. for suppressing the methamphetamine-induced increase in spontaneous movements in mice as compared to 0.2 and 1.1 mg/kg i.p. for haloperidol and chlorpromazine, resp., and induced catalepsy with ED50 of 101.6 mg/kg i.p. as compared to 1.3 and 6.2 mg/kg i.p. for haloperidol and chlorpromazine, resp., indicating that I had the reduced extrapyramidal activity.

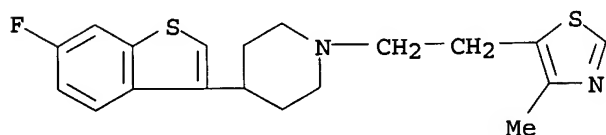
IT 173772-70-8P 173772-73-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of (pyridylalkyl)- or (piperazinylalkyl)thiazole derivs. as psychotropics and cardiovascular agents)

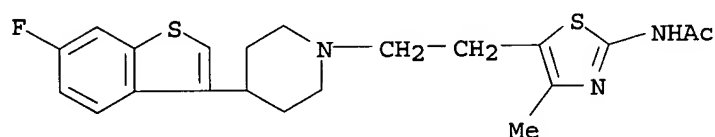
RN 173772-70-8 CAPLUS

CN Piperidine, 4-(6-fluorobenzo[b]thien-3-yl)-1-[2-(4-methyl-5-thiazolyl)ethyl]- (9CI) (CA INDEX NAME)



RN 173772-73-1 CAPLUS

CN Acetamide, N-[5-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4-methyl-2-thiazolyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1995:896104 CAPLUS

DN 123:314031

TI Preparation of fused thiophene derivatives with high affinity to dopamine D2 and serotonin 2 (5-HT2) receptors

IN Nakao, Tatsu; Ono, Juji; Bogauchi, Masahiro; Morimoto, Yasuto

PA Yoshitomi Pharmaceutical, Japan

SO Jpn. Kokai Tokyo Koho, 78 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07070135	A2	19950314	JP 1994-143144	19940624 <--
	JP 2959615	B2	19991006		
PRAI	JP 1993-179837		19930624		

OS MARPAT 123:314031

GI For diagram(s), see printed CA Issue.

AB Thieno[3,2-b]azepin-5-one derivs. and analogs [I; ring S = fused thiophene Q1 - Q4; R1 = H, halo, alkyl, acyl, hydroxyalkyl; R2 = H, alkyl, acyl, aryl, arylalkyl; wherein G = CH2, CH(OR3) (wherein R3 = H, alkyl, acyl), CO, S(O)t (wherein t = 0-2); Q = linear or branched alkylene; T = tert-amino; D = CH2, S(O)u (u = 0-2); when m = 0 or 1 and n = 0-2, one of A and B is absent and the other represents CO or C(S); or when m, n = 0-4, both A and B is absent; provided that m + n .ltoreq.4], which are both antagonists of dopamine D2 receptors and blockers of serotonin 2 (5-HT2) receptor, are useful as psychotropic agents with reduced side effects such hormonal and extrapyramidal side effects and excellent stability in blood, and effective for improving both pos. and neg. symptoms of schizophrenia, are prepd. Thus, 2,3-dihydrothieno[3,2-f][1,4]thiazepin-5(4H)-one (II; R1 = H) (prepn. given) was acylated by chlorobutyryl chloride in the presence of AlCl3 in CH2Cl2 under ice-cooling to give, after recrystn. from EtOH, II [R1 = CO(CH2)3Cl] which was condensed with 4-(1,2-benzisothiazol-3-yl)piperazine hydrochloride in the presence of K2CO3 and KI in DMF/toluene at 100.degree. for 24 h to give, after silica gel chromatog. and salt

formation with oxalic acid, II (R1 = Q5) oxalate. A thieno[2,3-c]pyridine deriv. (III) showed binding affinity to dopamine D2 receptor prepn. from synaptosome of Wister rat corpus striatum with Ki value of 0.15 nM and binding affinity to serotonin 2 (5-HT2) receptor and serotonin 1A (5-HT1A) receptor prepn. from synaptosome of Wister rat hippocampus with Ki value of 0.043 and 3.7 nM, resp. These title compds. I in vivo also antagonized the effects of apomorphine and ergometrine in rats.

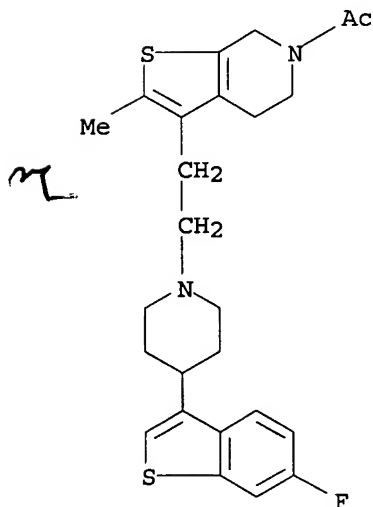
IT 153024-76-1P 153024-77-2P 153025-12-8P
 169806-64-8P 169806-65-9P 169806-74-0P
 169806-94-4P 169806-95-5P 169806-97-7P
 169806-98-8P 169807-01-6P 169807-04-9P
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 169807-08-3P 169807-09-4P 169807-10-7P
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 169807-17-4P 169807-18-5P 169807-23-2P
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 169807-27-6P 169807-28-7P 169807-29-8P
 169807-30-1P 169807-32-3P 169807-33-4P
 169807-36-7P 169807-37-8P 169807-38-9P
 169807-41-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of fused thiophene derivs. with high affinity to dopamine D2 and serotonin 2 (5-HT2) receptors as psychotropic agents)

RN 153024-76-1 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)



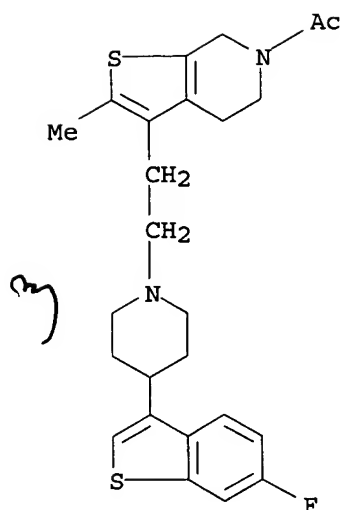
RN 153024-77-2 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 153024-76-1

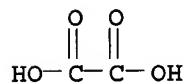
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CM 2

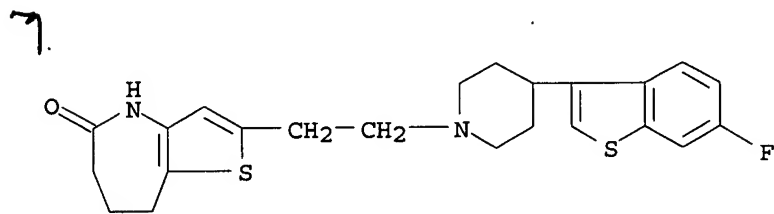
CRN 144-62-7

CMF C2 H2 O4



RN 153025-12-8 CAPLUS

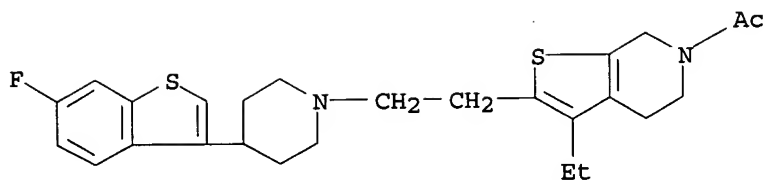
CN 5H-Thieno[3,2-b]azepin-5-one, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



RN 169806-64-8 CAPLUS

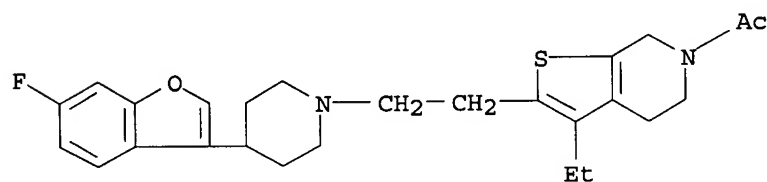
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130



● HCl

RN 169806-65-9 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

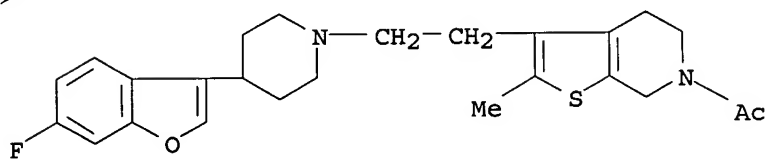


● HCl

RN 169806-74-0 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

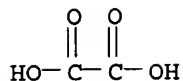
CM 1

CRN 169806-73-9
CMF C25 H29 F N2 O2 S



CM 2

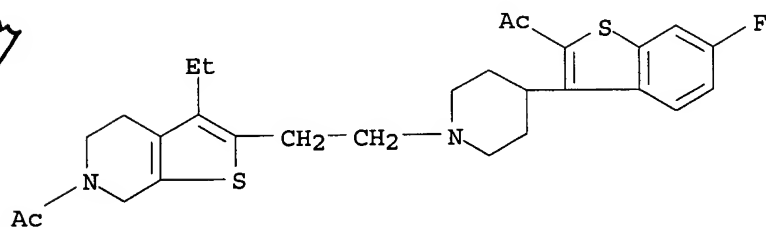
CRN 144-62-7
CMF C2 H2 O4



RN 169806-94-4 CAPLUS
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 (9CI) (CA INDEX NAME)

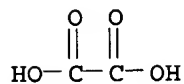
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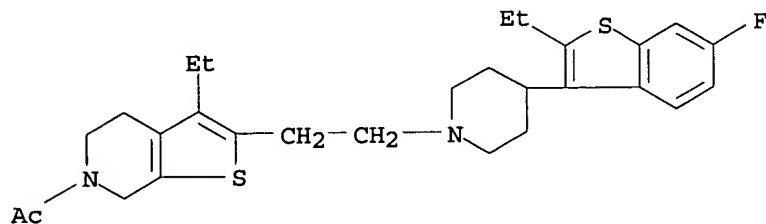


CM 2

CRN 144-62-7
 CMF C2 H2 O4



RN 169806-95-5 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(2-ethyl-6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro- (9CI)
 (CA INDEX NAME)



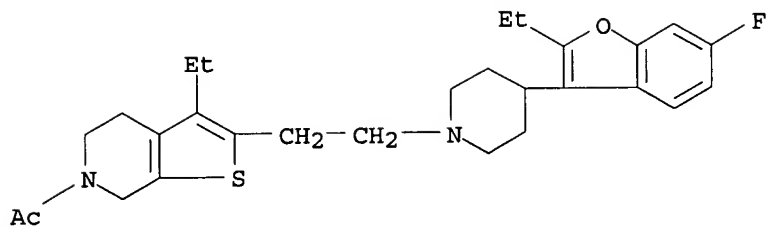
RN 169806-97-7 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(2-ethyl-6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, ethanedioate (1:1)
 (9CI) (CA INDEX NAME)

10/070,130

CM 1

CRN 169806-96-6

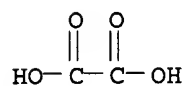
CMF C28 H35 F N2 O2 S



CM 2

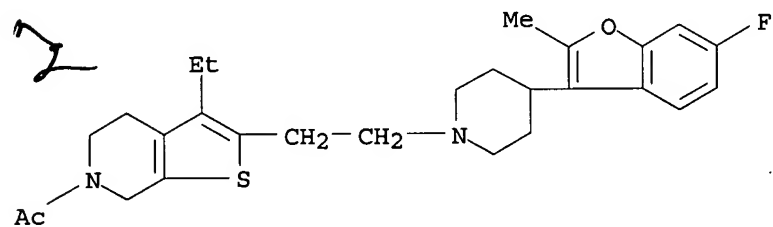
CRN 144-62-7

CMF C2 H2 O4



RN 169806-98-8 CAPLUS

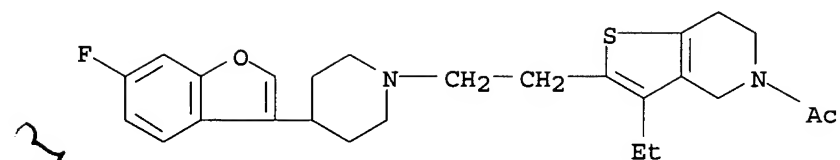
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(6-fluoro-2-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

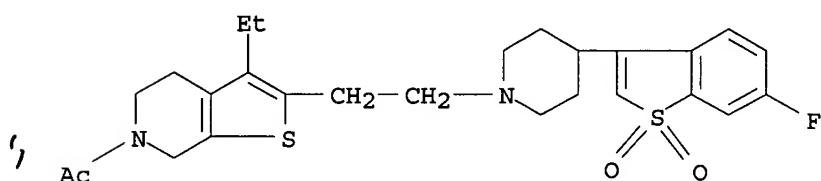
RN 169807-01-6 CAPLUS

CN Thieno[3,2-c]pyridine, 5-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



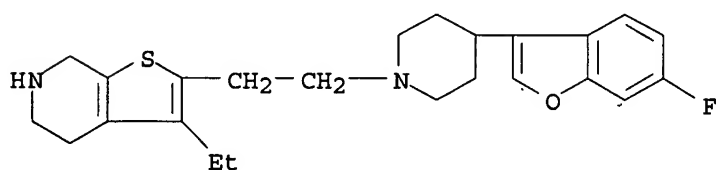
● HCl

RN 169807-04-9 CAPLUS
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● HCl

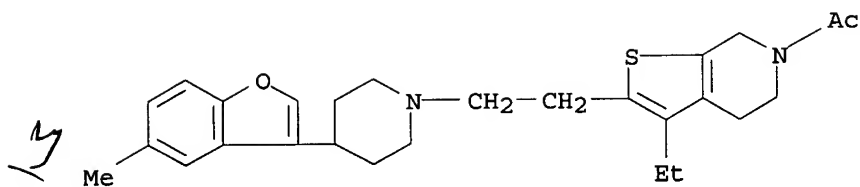
RN 169807-05-0 CAPLUS
 CN Thieno[2,3-c]pyridine, 3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

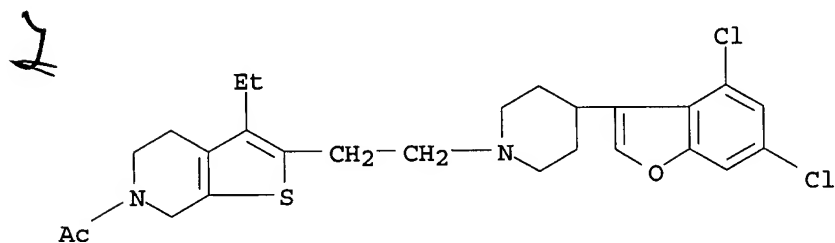
RN 169807-06-1 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130



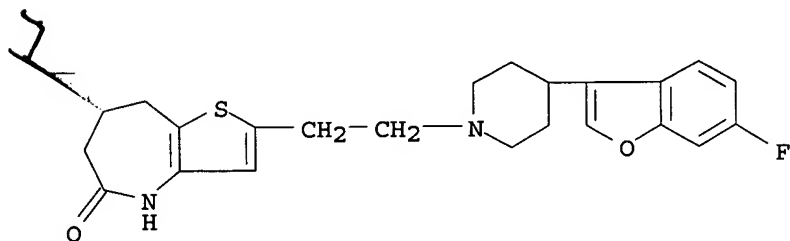
● HCl

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(CA INDEX NAME)

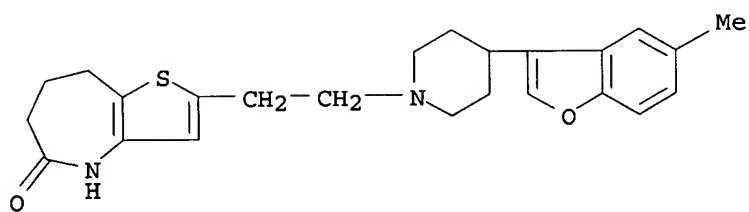


● HCl

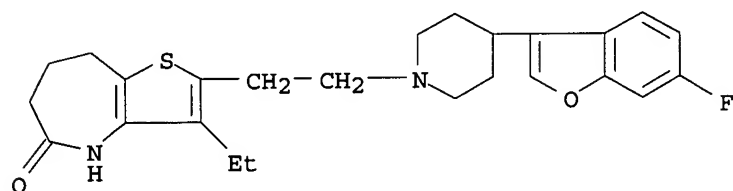
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CN 5H-Thieno[3,2-b]azepin-5-one, 2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



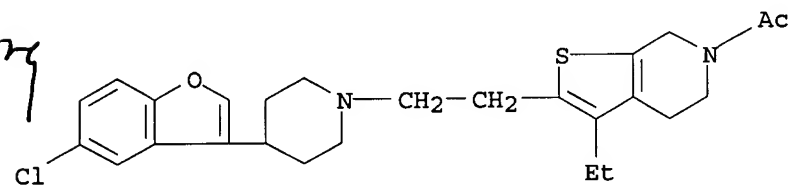
RN 169807-09-4 CAPLUS
CN 5H-Thieno[3,2-b]azepin-5-one, 4,6,7,8-tetrahydro-2-[2-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



RN 169807-10-7 CAPLUS
 CN 5H-Thieno[3,2-b]azepin-5-one, 3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



RN 169807-11-8 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5-chloro-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



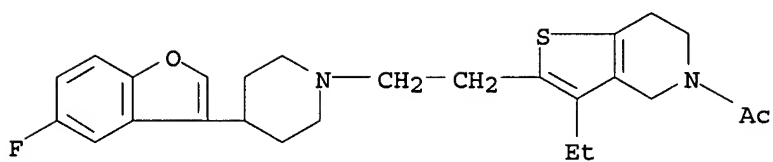
● HCl

RN 169807-13-0 CAPLUS
 CN Thieno[3,2-c]pyridine, 5-acetyl-3-ethyl-2-[2-[4-(5-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 169807-12-9
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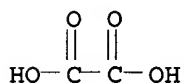
10/070,130



CM 2

CRN 144-62-7

CMF C2 H2 O4



RN 169807-15-2 CAPLUS

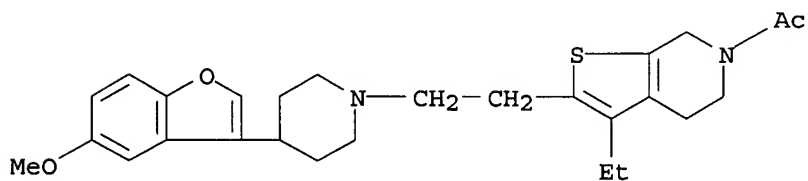
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methoxy-3-benzofuranyl)-1-piperidinyl]ethyl]-, ethanedioate (1:1) (9CI)
(CA INDEX NAME)

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CRN 169807-14-1

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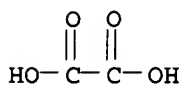
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CM 2

CRN 144-62-7

CMF C2 H2 O4



RN 169807-17-4 CAPLUS

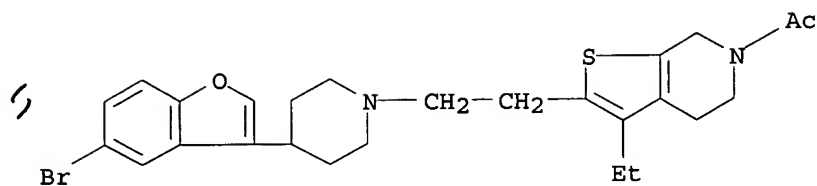
CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5-bromo-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, ethanedioate (1:1) (9CI)
(CA INDEX NAME)

CM 1

CRN 169807-16-3

10/070,130

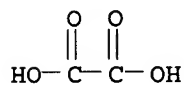
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CM 2

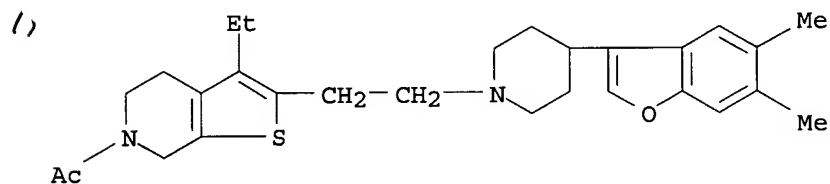
CRN 144-62-7

CMF C2 H2 O4



RN 169807-18-5 CAPLUS

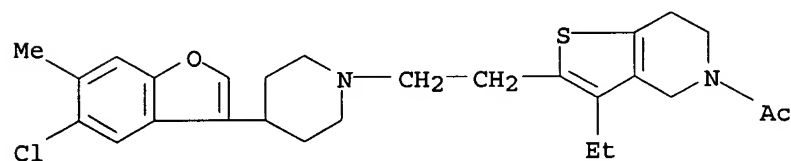
CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5,6-dimethyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI)
(CA INDEX NAME)



● HCl

RN 169807-23-2 CAPLUS

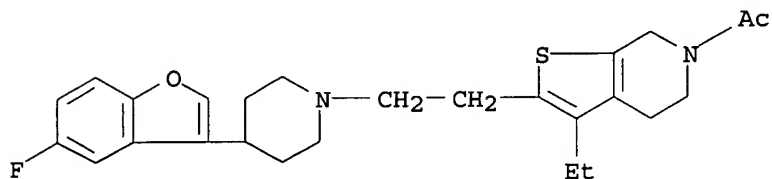
CN Thieno[3,2-c]pyridine, 5-acetyl-2-[2-[4-(5-chloro-6-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI)
(CA INDEX NAME)



HCl

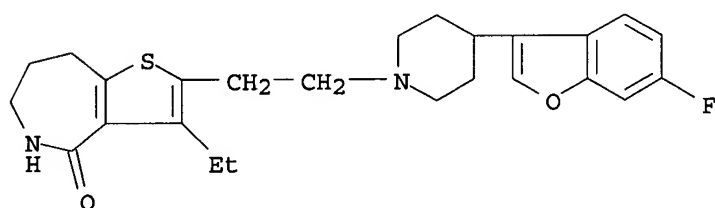
10/070,130

RN 169807-24-3 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[2-[4-(5-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



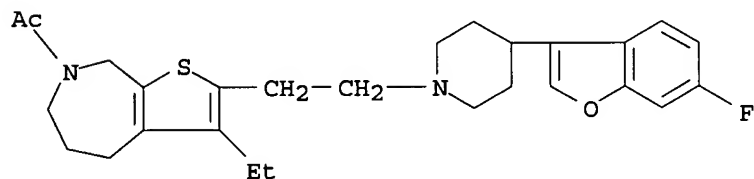
● HCl

RN 169807-25-4 CAPLUS
CN 4H-Thieno[3,2-c]azepin-4-one, 3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 169807-26-5 CAPLUS
CN 4H-Thieno[2,3-c]azepine, 7-acetyl-3-ethyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

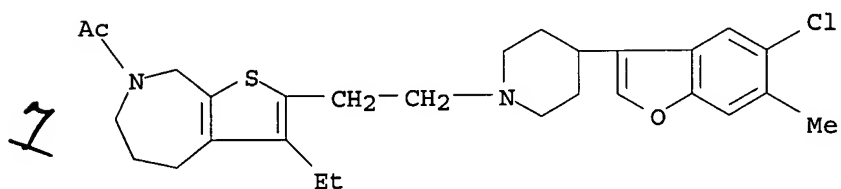


HCl

RN 169807-27-6 CAPLUS
CN 4H-Thieno[2,3-c]azepine, 7-acetyl-2-[2-[4-(5-chloro-6-methyl-3-

10/070,130

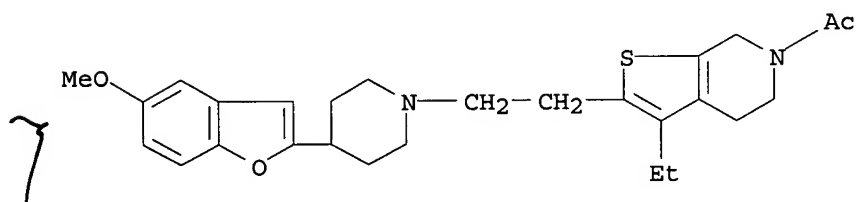
benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-5,6,7,8-tetrahydro-,
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 169807-28-7 CAPLUS

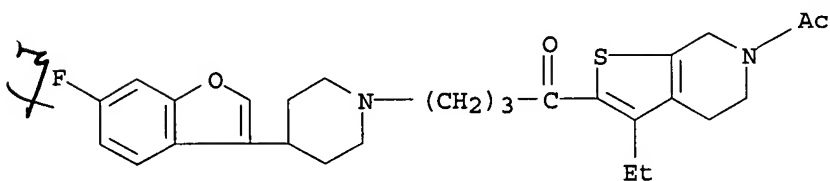
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(5-methoxy-2-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI)
(CA INDEX NAME)



● HCl

RN 169807-29-8 CAPLUS

CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-2-[4-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]-1-oxobutyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI)
(CA INDEX NAME)

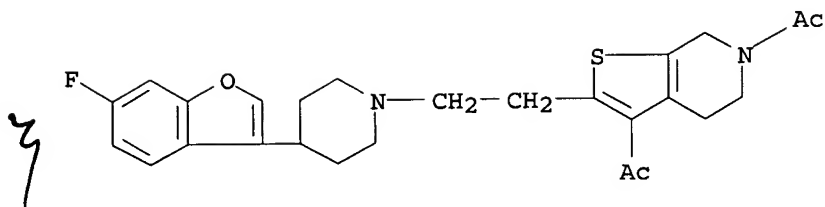


● HCl

RN 169807-30-1 CAPLUS

CN Thieno[2,3-c]pyridine, 3,6-diacetyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130

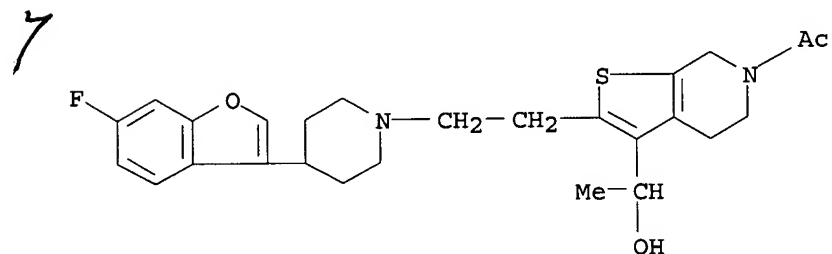


● HCl

RN 169807-32-3 CAPLUS
CN Thieno[2,3-c]pyridine-3-methanol, 6-acetyl-2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-.alpha.-methyl-, ethanedioate (1:1) (salt) (9CI) (CA INDEX NAME)

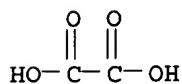
CM 1

CRN 169807-31-2
CMF C26 H31 F N2 O3 S

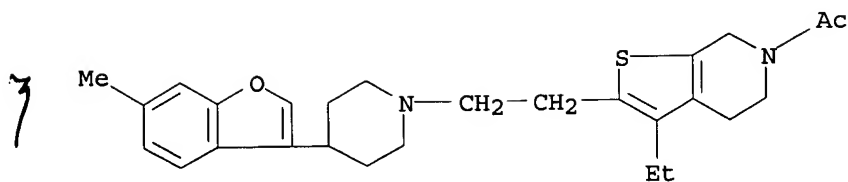


CM 2

CRN 144-62-7
CMF C2 H2 O4

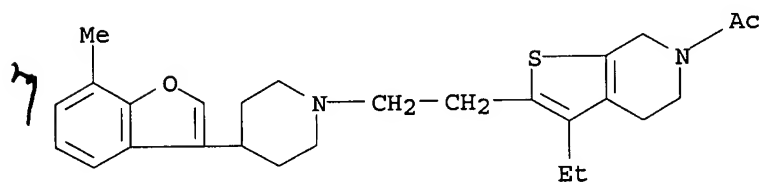


RN 169807-33-4 CAPLUS
CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(6-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



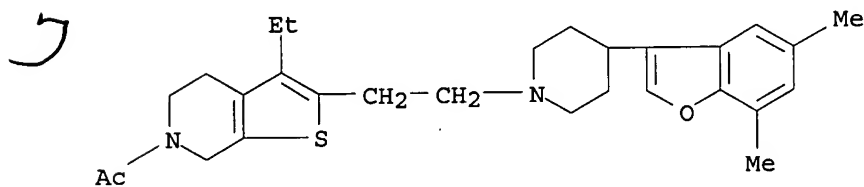
● HCl

RN 169807-36-7 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-3-ethyl-4,5,6,7-tetrahydro-2-[2-[4-(7-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



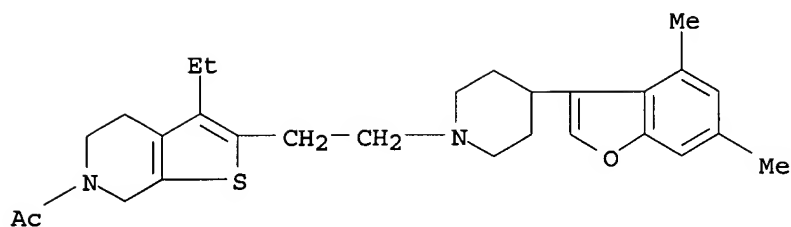
● HCl

RN 169807-37-8 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(5,7-dimethyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



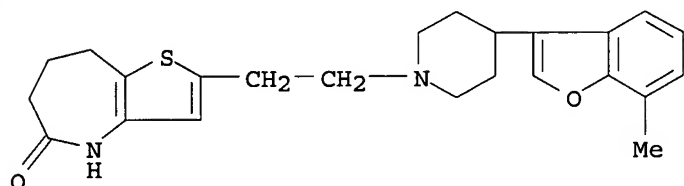
● HCl

RN 169807-38-9 CAPLUS
 CN Thieno[2,3-c]pyridine, 6-acetyl-2-[2-[4-(4,6-dimethyl-3-benzofuranyl)-1-piperidinyl]ethyl]-3-ethyl-4,5,6,7-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



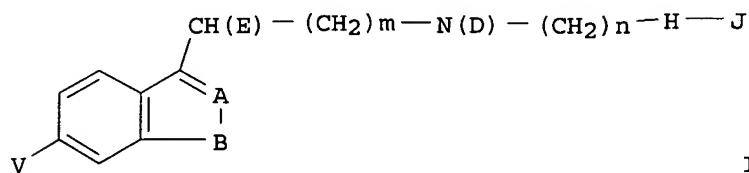
● HCl

RN 169807-41-4 CAPLUS
 CN 5H-Thieno[3,2-b]azepin-5-one, 4,6,7,8-tetrahydro-2-[2-[4-(7-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1995:234812 CAPLUS
 DN 122:1086
 TI preparation of amine derivatives as blood platelet aggregation inhibitors
 IN Sakurai, Kunya; Niwa, Seiji; Shoji, Masataka; Ueda, Takeo; Yamamoto, Hiroshi; Yoshimoto, Ryota
 PA Ajinomoto Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 30 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06234633	A2	19940823	JP 1993-22904	19930210 <--
PRAI	JP 1993-22904		19930210		
OS	MARPAT 122:1086				
GI					



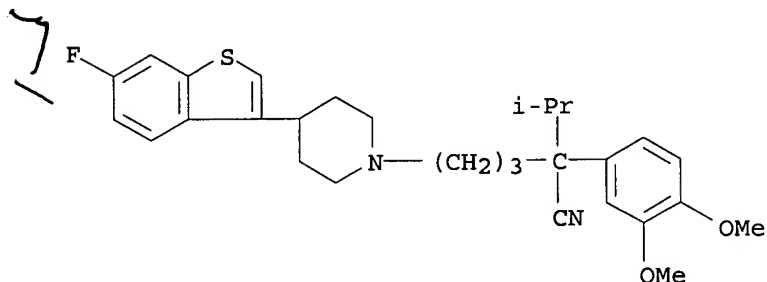
AB The amine derivs. (I) [A = N or C(G) (G = H C6-12 aryl, carboxy, etc.); B = NH, S, O; D = C1-6 alkyl; E = hydrogen or may link with D; V = hydrogen, F; H = CH:CH, S, CH2; J = naphthyl; m = 2-3; n = 0-6] are blood platelet aggregation inhibitors. Thus, 1-formyl-4-(2,4-difluorobenzoyl)piperazine was treated with hydroxylamine sulfate to give 4-(6-fluoroisobenzisooxazol-3-yl)piperazine, which was further treated with 1-bromo-3-(4-sulfamoylphenyl)propane to give II. II inhibited exptl. induced blood platelet aggregation with pIC50 = 6.3.

IT 153117-15-8P 153117-32-9P 153117-40-9P
 153117-41-0P 153117-42-1P 153117-45-4P
 153117-46-5P 153117-47-6P 153117-48-7P
 153117-49-8P 153117-53-4P 153117-54-5P
 159534-74-4P 159534-76-6P 159534-77-7P
 159534-80-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of amine derivs. as blood platelet aggregation inhibitors)

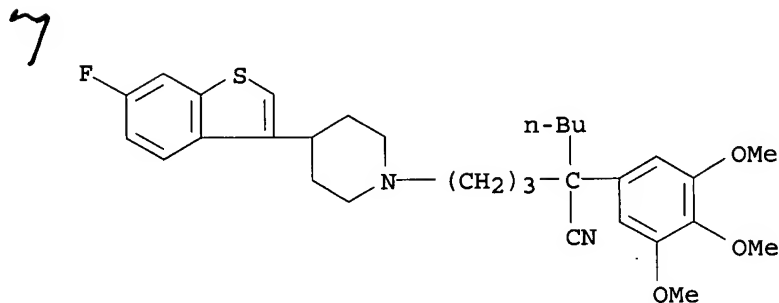
RN 153117-15-8 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-(3,4-dimethoxyphenyl)-4-(6-fluorobenzo[b]thien-3-yl)-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)



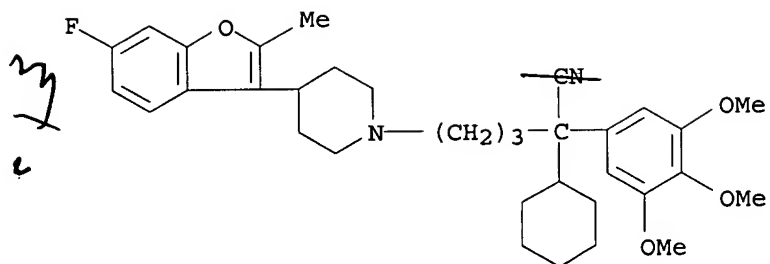
RN 153117-32-9 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluorobenzo[b]thien-3-yl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



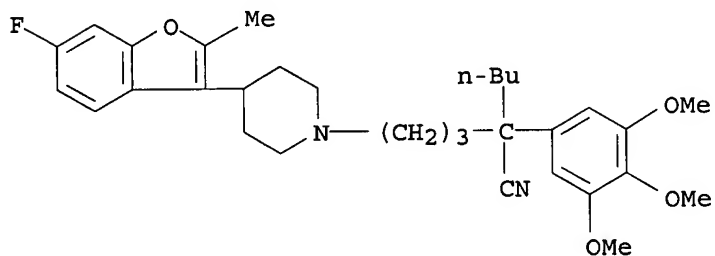
RN 153117-40-9 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluoro-2-methyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



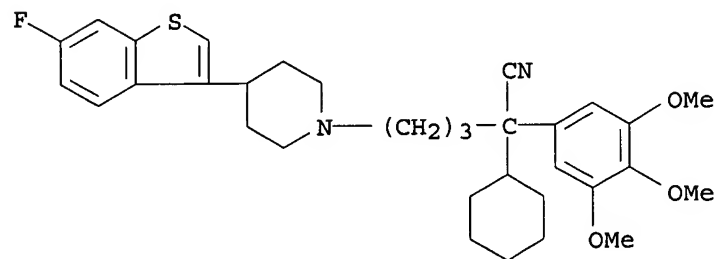
RN 153117-41-0 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluoro-2-methyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



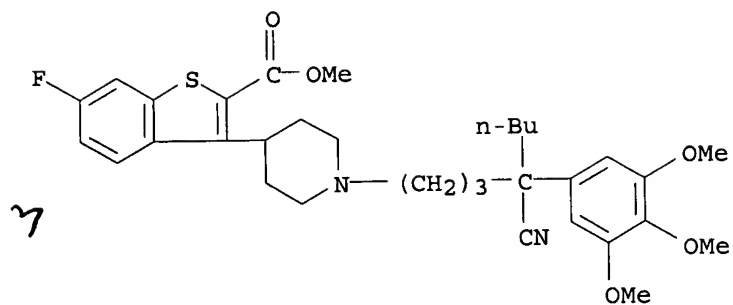
RN 153117-42-1 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluorobenzo[b]thien-3-yl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



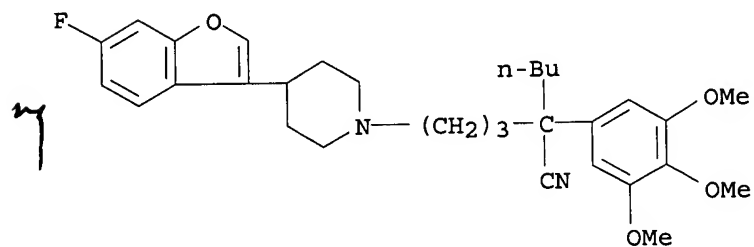
RN 153117-45-4 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 3-[1-[4-cyano-4-(3,4,5-trimethoxyphenyl)octyl]-4-piperidinyl]-6-fluoro-, methyl ester (9CI) (CA INDEX NAME)



RN 153117-46-5 CAPLUS

RN	153117-46-5	CAPLUS
CN	1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluoro-3-benzofuranyl)- .alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)	

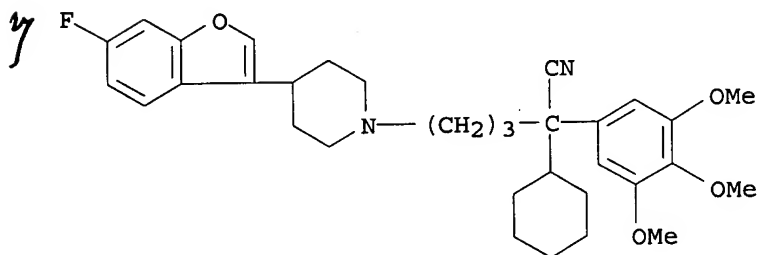


RN 153117-47-6 CAPLUS

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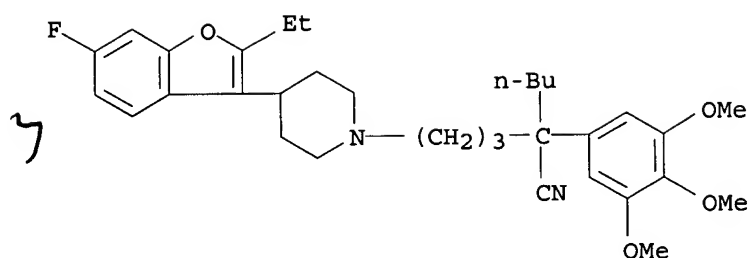
RN      153117-47-6  CAPLUS
CN      1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluoro-3-benzofuranyl)-
        .alpha.-(3,4,5-trimethoxyphenyl)- (9CI)  (CA INDEX NAME)

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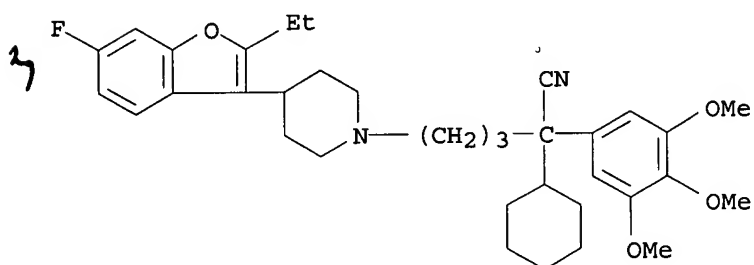


RN 153117-48-7 CAPLUS

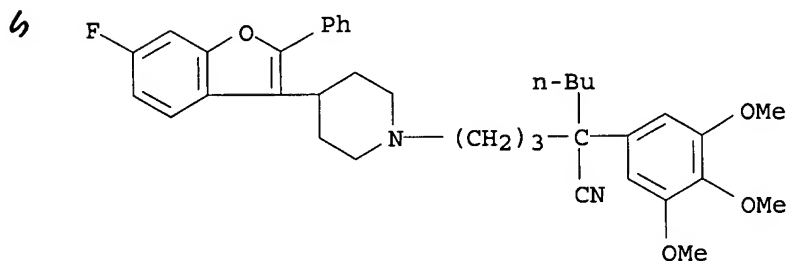
RN	153117-48-7	CAPLUS
CN	1-Piperidinepentanenitrile, .alpha.-butyl-4-(2-ethyl-6-fluoro-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)	



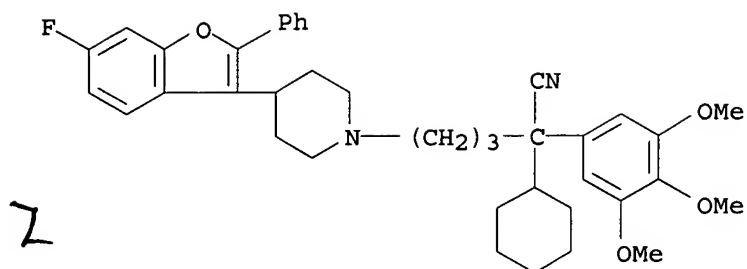
RN 153117-49-8 CAPLUS
 CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(2-ethyl-6-fluoro-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



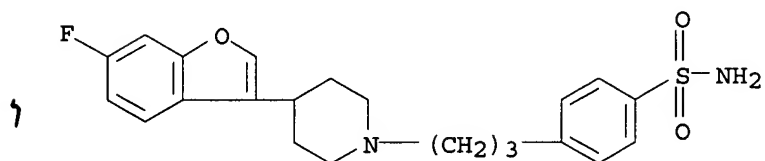
RN 153117-53-4 CAPLUS
 CN 1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluoro-2-phenyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



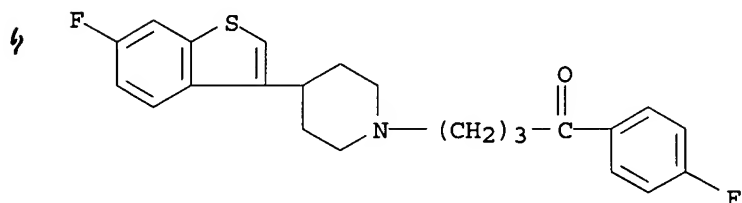
RN 153117-54-5 CAPLUS
 CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluoro-2-phenyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



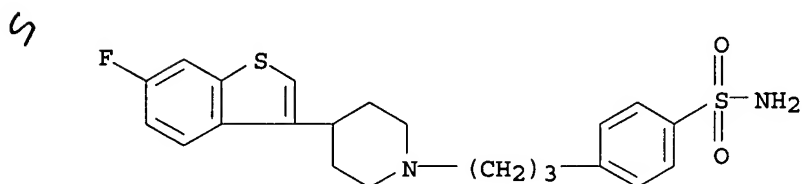
RN 159534-74-4 CAPLUS
 CN Benzenesulfonamide, 4-[3-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)



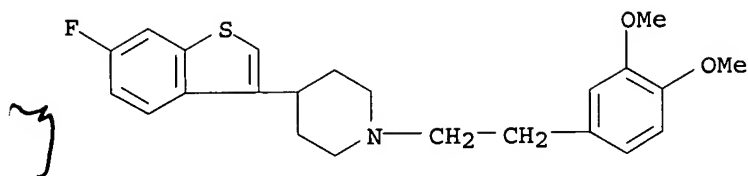
RN 159534-76-6 CAPLUS
 CN 1-Butanone, 4-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]-1-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 159534-77-7 CAPLUS
 CN Benzenesulfonamide, 4-[3-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)

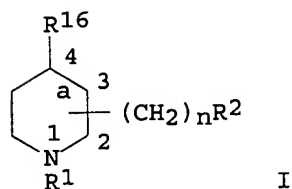


RN 159534-80-2 CAPLUS
 CN Piperidine, 1-[2-(3,4-dimethoxyphenyl)ethyl]-4-(6-fluorobenzo[b]thien-3-yl)- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1995:227442 CAPLUS
 DN 122:132986
 TI (N-phthalimidoalkyl) piperidines useful as treatments for psychosis
 IN Ciganek, Engelbert; Tam, Sang W.; Wright, Ann S.
 PA Du Pont Merck Pharmaceutical Co., USA
 SO U.S., 41 pp. Cont.-in-part of U.S. Ser. No. 602,024, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5356906	A	19941018	US 1992-876542	19920430 <--
	IL 96144	A1	19940624	IL 1990-96144	19901028 <--
	ZA 9008641	A	19920624	ZA 1990-8641	19901029 <--
	WO 9322310	A1	19931111	WO 1993-US3984	19930428 <--
	W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9340345	A1	19931129	AU 1993-40345	19930428 <--
	US 5480892	A	19960102	US 1994-298268	19940831 <--
PRAI	US 1989-428097		19891027		
	US 1990-602024		19901023		
	US 1992-876542		19920430		
	WO 1993-US3984		19930428		
OS	MARPAT 122:132986				
GI					



AB There is described novel (N-phthalimidoalkyl)piperidine compds. I or a pharmaceutically acceptable salt or an N-oxide thereof [a is a single or double bond, provided that when a is a double bond, R2(CH2)n is attached at C-4 and R16 is not present; n is 1-4, provided that when (CH2)n is attached to the 2-position of the piperidine ring then n is 2-4; R1 is (CH2)mR3 or (CH2)pAr, where m is 1-4 and p is 1-4; R2 is N-phthalimido] which exhibit selective .sigma.-receptor antagonism and therefore are useful in the treatment of physiol. or drug induced psychosis and dyskinesia in a mammal. Also described are pharmaceutical compns. contg.

.sigma. selective compds. and methods of using these compns. for treating physiol. or drug induced psychosis or dyskinesia in a mammal. Further provided are methods for prepg. the compds. of this invention. Kis in the 1-30 nM range were measured in the in vitro .sigma.-receptor binding assay.

IT 135903-63-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

((N-phthalimidoalkyl)piperidines as selective .sigma.-receptor antagonists useful as treatments for psychosis)

RN 135903-63-8 CAPLUS

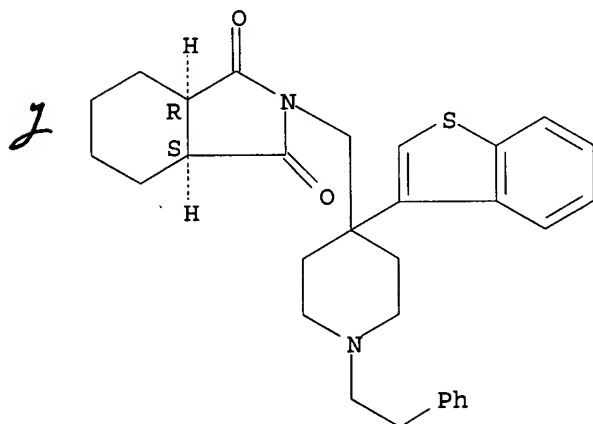
CN 1H-Isoindole-1,3(2H)-dione, 2-[[4-benzo[b]thien-3-yl-1-(2-phenylethyl)-4-piperidinyl]methyl]hexahydro-, (3aR,7aS)-rel-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 135903-62-7

CMF C30 H34 N2 O2 S

Relative stereochemistry.

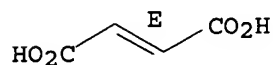


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



L10 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1994:270442 CAPLUS

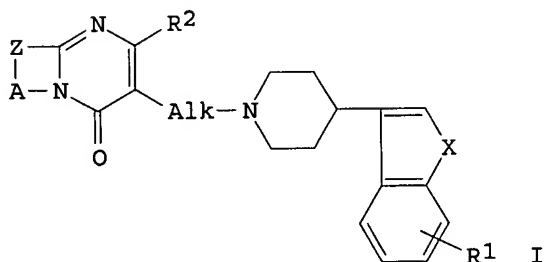
DN 120:270442

TI 4-(3-Benzofuranyl)piperidinyl and 4-(3-benzothienyl)piperidinyl derivatives

IN Vandenberk, Jan; Kennis, Ludo Edmond Josephine; Van Heertum, Albertus Henricus

PA Janssen Pharmaceutica N.V., Belg.
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9401437	A1	19940120	WO 1993-EP1776	19930706 <--
	W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9345659	A1	19940131	AU 1993-45659	19930706 <--
	AU 669196	B2	19960530		
	EP 672043	A1	19950920	EP 1993-915840	19930706 <--
	EP 672043	B1	20010530		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 07508741	T2	19950928	JP 1993-502963	19930706 <--
	ES 2159526	T3	20011016	ES 1993-915840	19930706
	ZA 9305017	A	19950112	ZA 1993-5017	19930712 <--
	US 6348457	B1	20020219	US 1995-362529	19950105
	FI 9500138	A	19950112	FI 1995-138	19950112 <--
	NO 9500124	A	19950112	NO 1995-124	19950112 <--
PRAI	US 1992-912396	A2	19920713		
	US 1992-912936	B1	19920713		
	WO 1993-EP1776	A	19930706		
OS	MARPAT 120:270442				
GI					



AB Novel title compds. I [X = O, S; R1 = hydrogen or halo; R2 = hydrogen, C1-4 alkyl, phenylmethyl, halophenylmethyl; Alk = C1-4 alkanediyl; Z-A is a bivalent radical selected from the group consisting of SCH2CH2, SCH2CH2CH2, SCH:CH, CH:CH, C(:CHR3)CH2CH2CH2, CH:CHO, CHR4CH2CH2, CHR4CH2CH2CH2, CHR4CH2CH2CH2CH2CH2; in said bivalent radicals one hydrogen may be replaced by C1-4 alkyl; R3 = Ph, halophenyl; each R4 independently represents hydrogen, hydroxy, phenylmethyl or halophenylmethyl], the pharmaceutically acceptable acid addn. salts thereof and the stereochem. isomeric forms thereof are claimed, as well as pharmaceutical compns. of said compds. and use as a medicine. I are prepd. by alkylation of 4-(3-benzofuranyl)piperidines and 4-(3-benzothieryl)piperidines with alkyl derivs. having a reactive leaving group, e.g., 3-(2-chloroethyl)-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one.

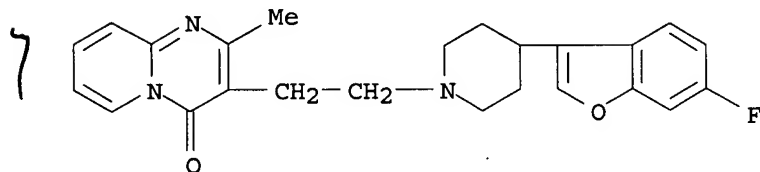
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 154467-94-4P 154467-95-5P 154467-96-6P
 154467-97-7P 154467-98-8P 154468-00-5P

154468-02-7P 154468-04-9P 154468-05-0P
 154468-07-2P 154468-08-3P 154468-09-4P
 154468-10-7P 154468-11-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as antipsychotic)

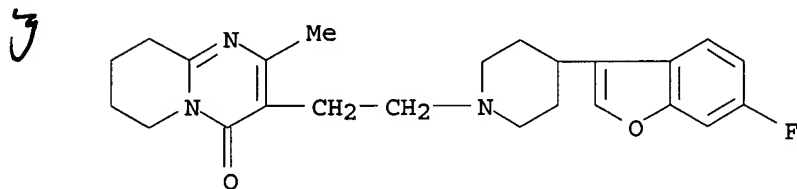
RN 154467-91-1 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-2-methyl- (9CI) (CA INDEX NAME)



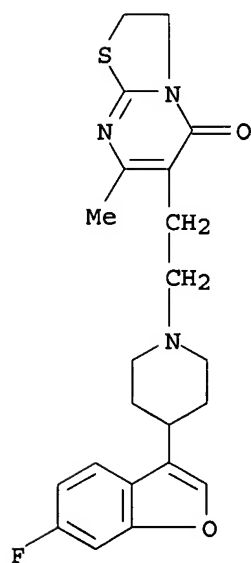
RN 154467-92-2 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)

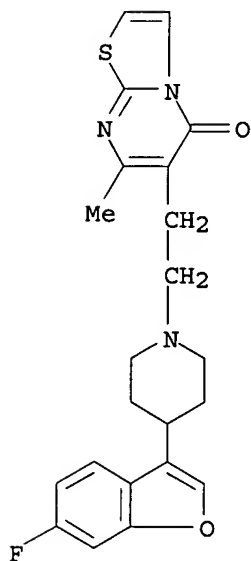


RN 154467-93-3 CAPLUS

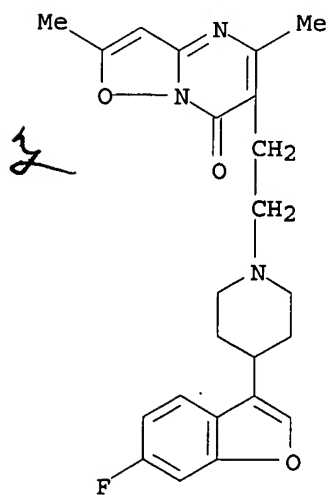
CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 6-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-2,3-dihydro-7-methyl- (9CI) (CA INDEX NAME)



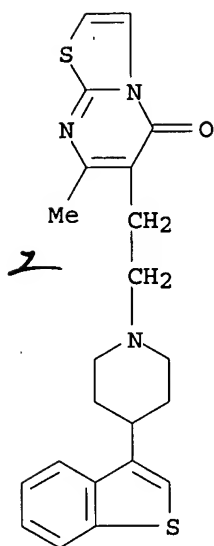
RN 154467-94-4 CAPLUS
 CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 6-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-7-methyl- (9CI) (CA INDEX NAME)



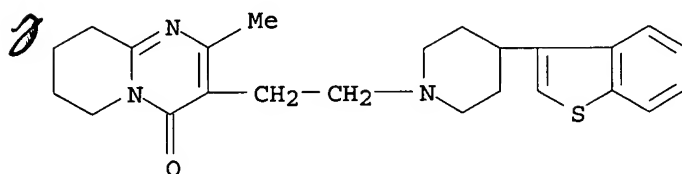
RN 154467-95-5 CAPLUS
 CN 7H-Isioxazolo[2,3-a]pyrimidin-7-one, 6-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-2,5-dimethyl- (9CI) (CA INDEX NAME)



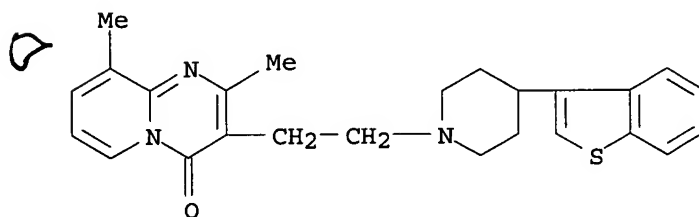
RN 154467-96-6 CAPLUS
 CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 6-[2-(4-benzo[b]thien-3-yl-1-piperidinyl)ethyl]-7-methyl- (9CI) (CA INDEX NAME)



RN 154467-97-7 CAPLUS
 CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-(4-benzo[b]thien-3-yl-1-piperidinyl)ethyl]-6,7,8,9-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)



RN 154467-98-8 CAPLUS
 CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-(4-benzo[b]thien-3-yl-1-piperidinyl)ethyl]-2,9-dimethyl- (9CI) (CA INDEX NAME)

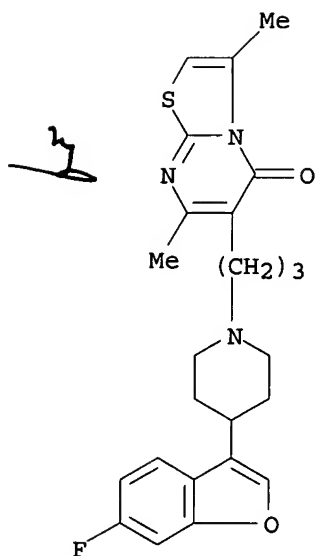


RN 154468-00-5 CAPLUS
 CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 6-[3-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]propyl]-3,7-dimethyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 154467-99-9
 CMF C24 H26 F N3 O2 S

10/070,130

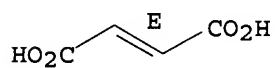


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



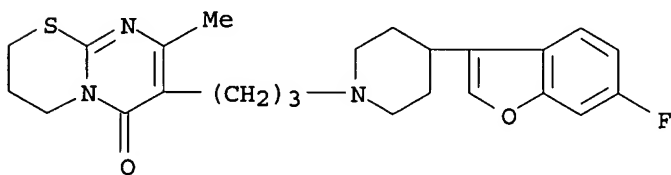
RN 154468-02-7 CAPLUS

CN 2H,6H-Pyrimido[2,1-b][1,3]thiazin-6-one, 7-[3-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]propyl]-3,4-dihydro-8-methyl-, (2E)-2-butenedioate (1:1)
(9CI) (CA INDEX NAME)

CM 1

CRN 154468-01-6

CMF C24 H28 F N3 O2 S

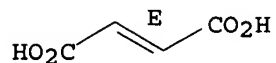


CM 2

CRN 110-17-8

CMF C4 H4 O4

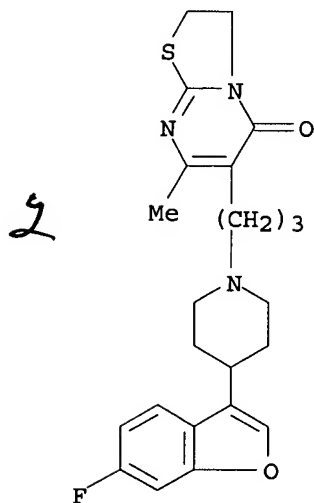
Double bond geometry as shown.



RN 154468-04-9 CAPLUS
 CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 6-[3-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]propyl]-2,3-dihydro-7-methyl-, (2E)-2-butenedioate (1:1) (9CI)
 (CA INDEX NAME)

CM 1

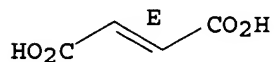
CRN 154468-03-8
 CMF C23 H26 F N3 O2 S



CM 2

CRN 110-17-8
 CMF C4 H4 O4

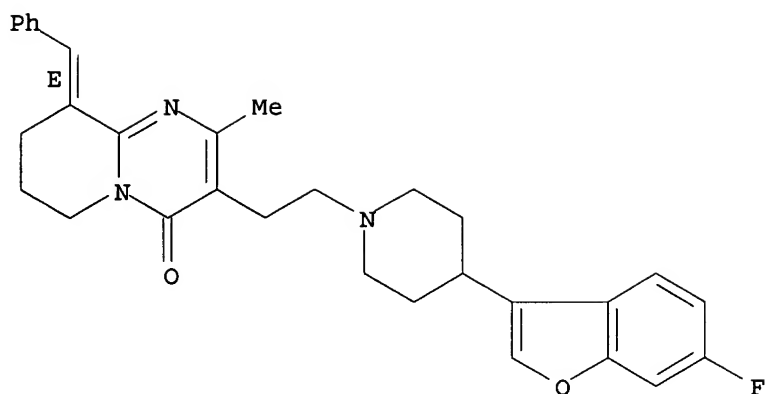
Double bond geometry as shown.



RN 154468-05-0 CAPLUS
 CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-methyl-9-(phenylmethylene)-, (E)-
 (9CI) (CA INDEX NAME)

Double bond geometry as shown.

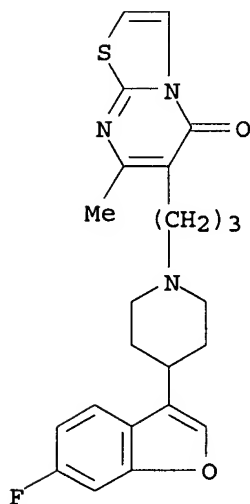
10/070,130



RN 154468-07-2 CAPLUS
CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 6-[3-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]propyl]-7-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

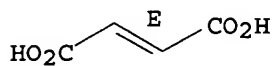
CRN 154468-06-1
CMF C23 H24 F N3 O2 S



CM 2

CRN 110-17-8
CMF C4 H4 O4

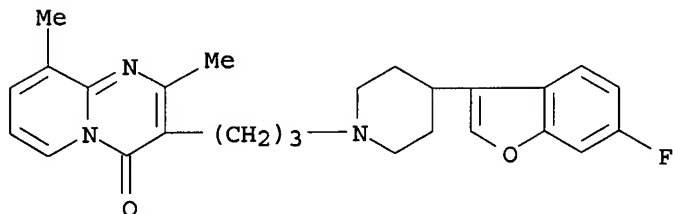
Double bond geometry as shown.



10/070,130

RN 154468-08-3 CAPLUS

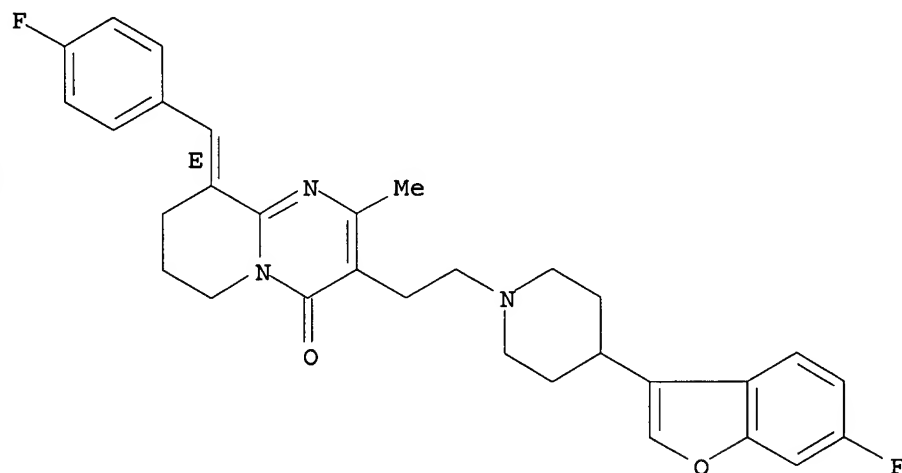
CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[3-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]propyl]-2,9-dimethyl- (9CI) (CA INDEX NAME)



RN 154468-09-4 CAPLUS

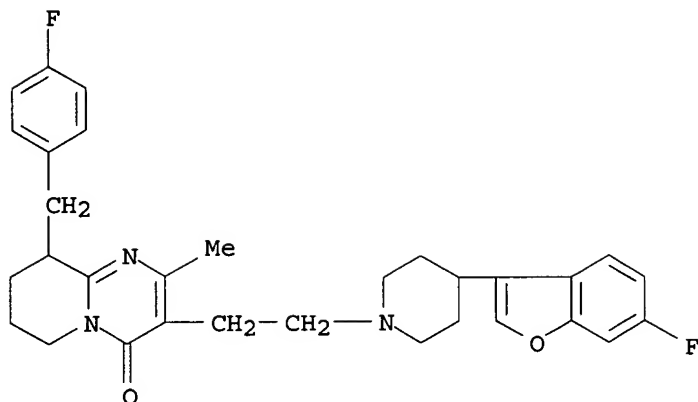
CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-9-[(4-fluorophenyl)methylene]-6,7,8,9-tetrahydro-2-methyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

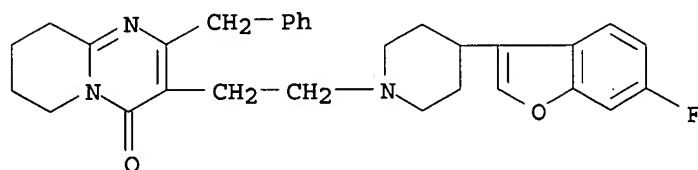


RN 154468-10-7 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-9-[(4-fluorophenyl)methyl]-6,7,8,9-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)

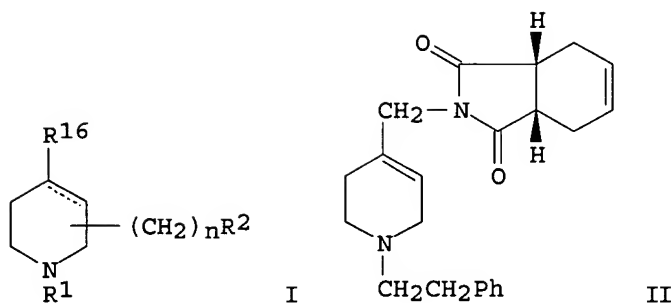


RN 154468-11-8 CAPLUS
 CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1994:270118 CAPLUS
 DN 120:270118
 TI (N-phthalimodoalkyl)piperidine sigma receptor antagonists for the treatment of psychoses
 IN Ciganek, Engelbert; Tam, Sang William; Wright, Ann Sorrentino
 PA Du Pont Merck Pharmaceutical Co., USA
 SO PCT Int. Appl., 129 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9322310	A1	19931111	WO 1993-US3984	19930428 <--
	W:	AU, BB, BG, BR, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, VN			
	RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 5356906	A	19941018	US 1992-876542	19920430 <--
	AU 9340345	A1	19931129	AU 1993-40345	19930428 <--
PRAI	US 1992-876542		19920430		
	US 1989-428097		19891027		
	US 1990-602024		19901023		
	WO 1993-US3984		19930428		
OS	MARPAT 120:270118				
GI					



AB The title compds. I [R1 = cycloalkyl- or aryl-substituted alkyl; R2 = (un)substituted phthalimido, etc.; R16 = OH, alkoxy, alkyl, (un)substituted Ph or naphthyl, etc.; n = 0-4; the dotted line is an optional double bond], which are selective sigma receptor antagonists useful for the treatment of physiol. or drug-induced psychosis and dyskinesia, are prepd. and I-contg. formulations presented. Thus, 1-(2-phenylethyl)-4-piperidinemethylamine was condensed with cis-1,2,3,6-tetrahydrophthalic anhydride, and the free base salified with fumaric acid, producing fumarate II (m.p. 179-181.degree.). II demonstrated guinea pig brain membrane-derived sigma receptor Ki of 31-100 nM and dopamine D-2 receptor of Ki >500 nM, vs. 1-30 and 1-30, resp., for haloperidol.

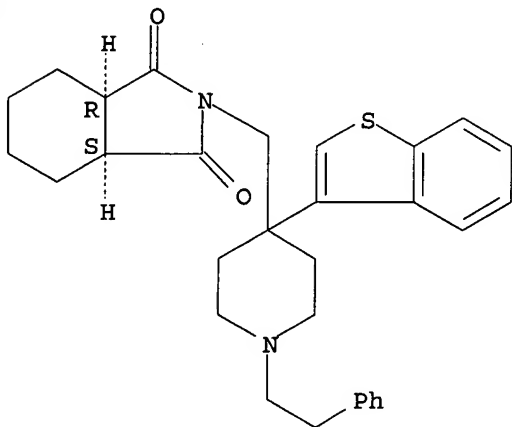
IT 135903-62-7 135903-63-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. as antipsychotic sigma receptor antagonist)

RN 135903-62-7 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-[[4-benzo[b]thien-3-yl-1-(2-phenylethyl)-4-piperidinyl]methyl]hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 135903-63-8 CAPLUS

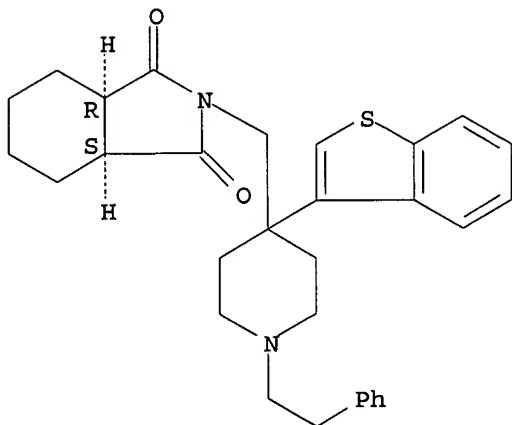
CN 1H-Isoindole-1,3(2H)-dione, 2-[[4-benzo[b]thien-3-yl-1-(2-phenylethyl)-4-piperidinyl]methyl]hexahydro-, (3aR,7aS)-rel-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

10/070,130

CRN 135903-62-7
CMF C30 H34 N2 O2 S

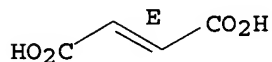
Relative stereochemistry.



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



L10 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1994:164148 CAPLUS

DN 120:164148

TI Preparation of condensed thiophene compounds with high affinity for serotonin and dopamine receptors and pharmaceutical use thereof

IN Nakao, Tohru; Ono, Yuji; Bougauchi, Masahiro; Morimoto, Yasuto

PA Yoshitomi Pharmaceutical Industries, Ltd., Japan

SO PCT Int. Appl., 144 pp.

CODEN: PIXXD2

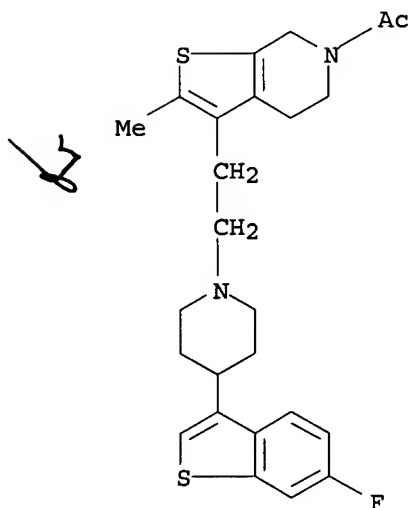
DT Patent

LA Japanese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9313105	A1	19930708	WO 1992-JP1695	19921224 <--
	W: CA, HU, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2104371	AA	19930627	CA 1992-2104371	19921224 <--
	EP 596125	A1	19940511	EP 1993-900390	19921224 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
PRAI	JP 1991-359547		19911226		
	JP 1992-309388		19921023		
	WO 1992-JP1695		19921224		
OS	MARPAT 120:164148				

- GI For diagram(s), see printed CA Issue.
- AB The title compds. [I; ring S = Q1 - Q3, etc.; wherein R1 = H, halo, NO2, NH2, cyano, OH, CHO, alkyl, alkoxy, haloalkyl, arylalkyl, acyl, acyloxy, alkoxyalkyl, acyloxyalkyl, hydroxyalkyl, acyloxyalkanoyl, alkylthio, alkoxyalkanoyl, hydroxyalkanoyl, aryloxyalkanoyl, haloalkanoyl, alkylthio, alkylsulfinyl, alkylsulfonyl, arylthio, arylsulfinyl, arylsulfonyl, SO3H, halosulfonyl, (un)substituted SO2NH2, CONH2, or NH2, CO2H, alkoxycarbonyl, acylamino; R2 = H, alkyl, acyl, aryl, arylalkyl; G = CH2, CH(OR3) (wherein R3 = H, alkyl, acyl), CO, C(:NOR4) (wherein R4 = R3 = H, alkyl, acyl), CHNH2, S(O)t (wherein t = 0,1,2); Q = linear or branched alkylene; T = 1.degree., 2.degree., or 3.degree. amino; D = CH2, S(O)u (wherein u = 0,1,2); A, B = absent, CO, SO], useful as antipsychotic drugs having a reduced extrapyramidal effect or as antianxiety drugs, are prepd. Thus, Friedel-Crafts acylation of 2,3-dihydrothieno[3,2-f][1,4]thiazepin-5(H)-one by Cl(CH2)3COCl in the presence of AlCl3 in CHCl3 and condensation of the resulting 7-(4-chlorobutyryl)-2,3-dihydrothieno[3,2-f][1,4]thiazepin-5(H)-one with 4-(1,2-benzisothiazol-3-yl)piperazine hydrochloride in the presence of K2CO3 and KI in DMF at 100.degree. gave, after salt formation, 7-[4-[4-(1,2-benzisothiazol-3-yl)piperazin-3-yl]butyryl]-2,3-dihydrothieno[3,2-f][1,4]thiazepin-5(H)-one oxalate. 2-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)piperidin-1-yl]ethyl]-4,6,7,8-tetrahydro-5H-thieno[3,2-b]azepin-5-one showed the affinity for dopamine D2, serotonin 2, and serotonin 1A receptors with Ki of 0.065, 0.32, and 1.6 nM, resp. 6-Acetyl-3-[2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)piperidin-1-yl]ethyl]-4,5,6,7-tetrahydro-2-methylthieno[2,3-c]pyridine showed the affinity for dopamine D2, serotonin 2, and serotonin 1A receptors with Ki of 0.46, 0.062, and 32 nM, resp. A total of 107 I including oxalate or hydrochloride salts were prepd.
- IT 153024-76-1P 153024-77-2P 153025-12-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as antipsychotic and antianxiety agent)
- RN 153024-76-1 CAPLUS
- CN Thieno[2,3-c]pyridine, 6-acetyl-3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)



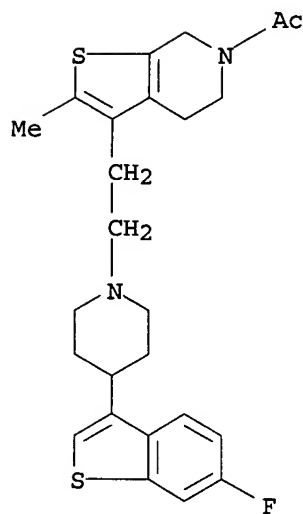
- RN 153024-77-2 CAPLUS
- CN Thieno[2,3-c]pyridine, 6-acetyl-3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,5,6,7-tetrahydro-2-methyl-, ethanedioate (1:1) (9CI)
 (CA INDEX NAME)

10/070,130

CM 1

CRN 153024-76-1

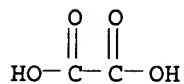
CMF C25 H29 F N2 O S2



CM 2

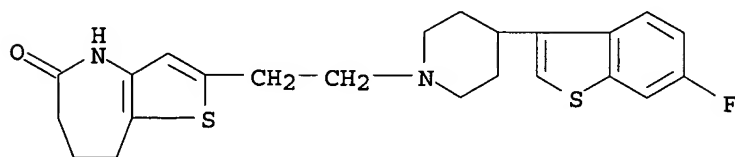
CRN 144-62-7

CMF C2 H2 O4



RN 153025-12-8 CAPLUS

CN 5H-Thieno[3,2-b]azepin-5-one, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-4,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



L10 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1994:163918 CAPLUS

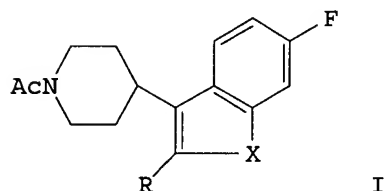
DN 120:163918

TI Syntheses of 4-(benzo[b]furan-2 or 3-yl)- and 4-(benzo[b]thiophen-3-yl)piperidines with 5-HT2 antagonist activity

AU Watanabe, Yoshifumi; Yoshiwara, Hirotaka; Kanao, Munefumi

CS Explor. Res. Lab. II, Daiichi Pharm. Co. Ltd., Tokyo, 134, Japan

SO Journal of Heterocyclic Chemistry (1993), 30(2), 445-51
 CODEN: JHTCAD; ISSN: 0022-152X
 DT Journal
 LA English
 GI



AB The syntheses of title compds., e.g. I (R = H, CO₂Me, X = O, S) with 5-HT₂ antagonist activity are described.

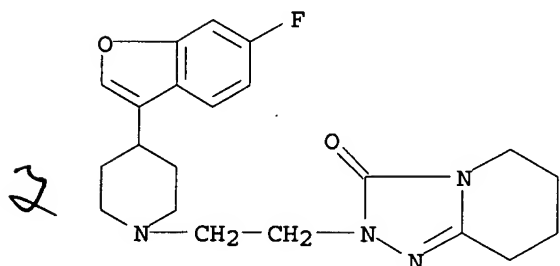
IT 140213-66-7P 140213-72-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in synthesis of antagonists
 benzofuranylpiperidines and benzothiophenylpiperidines)

RN 140213-66-7 CAPLUS

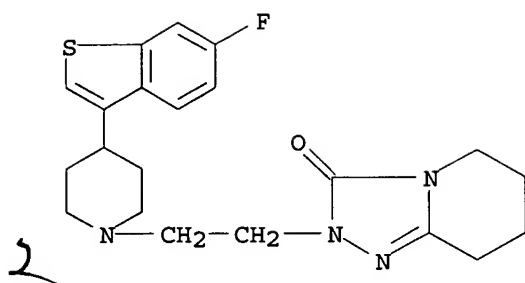
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-72-5 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



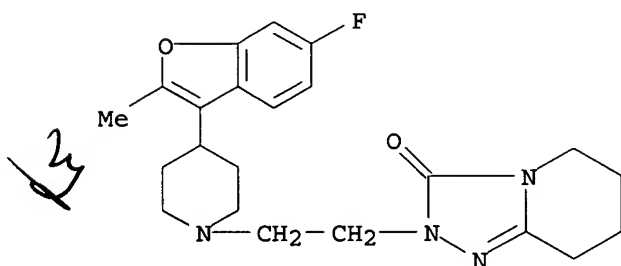
● HCl

IT 140213-67-8P 140213-68-9P 140213-70-3P
 140213-71-4P 140232-68-4P 153411-27-9P
 153411-28-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 140213-67-8 CAPLUS

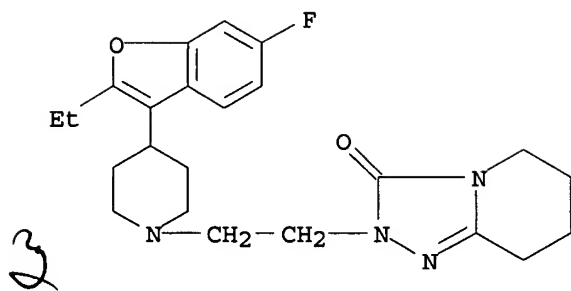
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride
 (9CI) (CA INDEX NAME)



● HCl

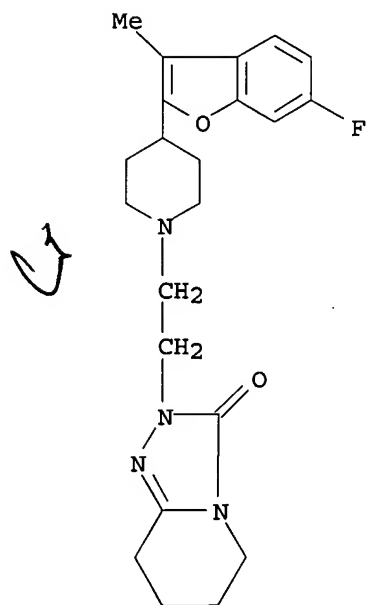
RN 140213-68-9 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(2-ethyl-6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride
 (9CI) (CA INDEX NAME)



● HCl

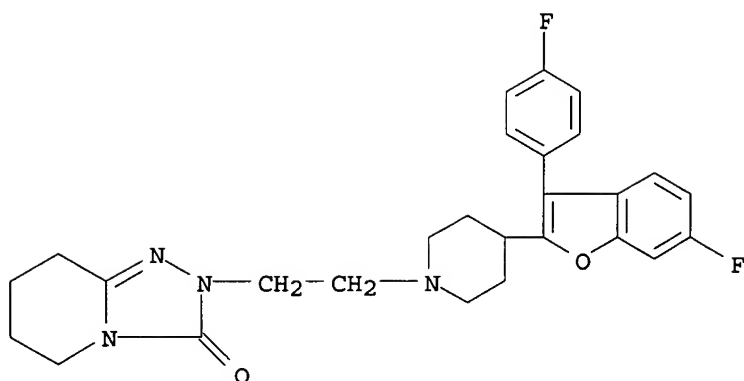
RN 140213-70-3 CAPLUS
 CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-3-methyl-2-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

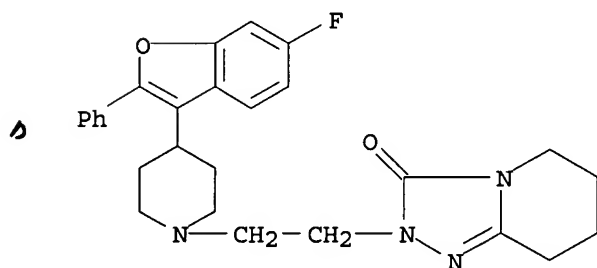
RN 140213-71-4 CAPLUS
 CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-3-(4-fluorophenyl)-2-benzofuranyl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

10/070,130



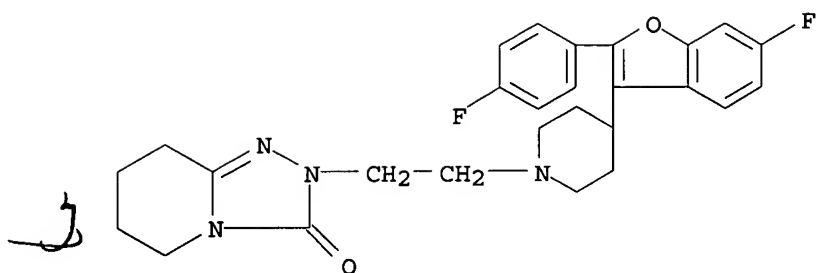
● HCl

RN 140232-68-4 CAPLUS
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-phenyl-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

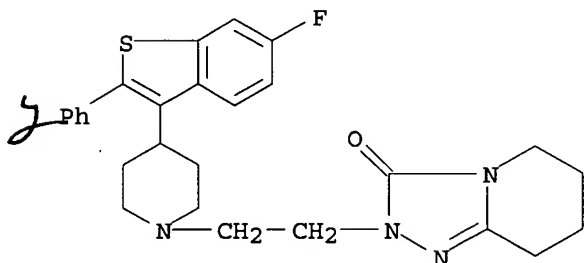
RN 153411-27-9 CAPLUS
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-2-(4-fluorophenyl)-3-benzofuranyl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 153411-28-0 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-phenylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1994:153724 CAPLUS

DN 120:153724

TI Amines and blood pressure-lowering agents containing them

IN Sakurai, Kunya; Niwa, Seiji; Shoji, Masataka; Domoto, Hideki; Uchida, Hirohisa; Yoshimoto, Ryota

PA Ajinomoto Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

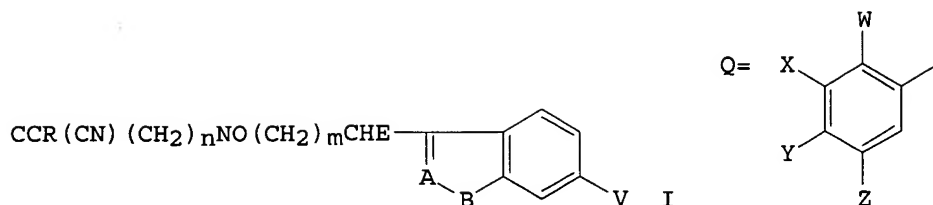
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05271220	A2	19931019	JP 1992-331710	19921211 <--
PRAI	JP 1991-329134		19911212		
OS	MARPAT 120:153724				
GI					



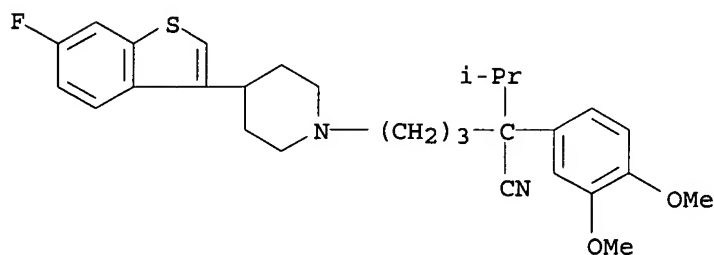
AB Amines I [A = N, CG (G = H, C1-6 alkyl, C6-12 aryl, CO₂H, C2-6 alkoxyacetyl); B = S, O, NH; C (at the terminal) = naphthalene ring, heterocyclyl, Q (W, X, Y, Z = H, halo, C1-3 alkyl, C1-3 alkoxy; OH, NO₂, NH₂, C1-3 acylamino, C1-3 alkanesulfonylamino, C2-4 alkoxyacetyl, C1-3 acyloxy, C2-4 alkoxyacetyl, aminocarbonyl, aminosulfonyl, C1-3 perfluoroalkyl, C1-3 perfluoroacetyl, C1-3 perfluoroalkanesulfonylamino, CN); R = H, C6-10 aralkyl, C6-12 aryl, C1-8 alkyl (partially substituted with alkenyl, alkynyl, alkylthioalkyl, alkoxyalkyl); m = 1-3; D = C1-6 alkyl; E = H; DE may form (CH₂)₂ (when m = 2); V = H, F; n = 2-6] or their pharmacol. acceptable salts are useful as blood pressure-lowering agents. 3,4,5-Trimethoxyphenylacetonitrile was treated with bromoethane, 1-bromo-3-chloropropane, and NaNH₂ to give 86.1% 2-ethyl-5-chloro-2-(3,4,5-trimethoxyphenyl)valeronitrile, which was treated with 4-(6-fluoro-1H-indazol-3-yl)piperidine-HCl, K₂CO₃, and NaI in Me iso-Bu ketone at 100.degree. overnight to give 85.4% 2-ethyl-5-[4-(6-fluoro-1H-indazol-3-yl)piperidin-1-yl]-2-(3,4,5-trimethoxyphenyl)valeronitrile (II). II showed serotonin inhibitory activity with pIC₅₀ of 6.6 in plasma from rabbits.

IT 153117-15-8P 153117-32-9P 153117-40-9P
153117-41-0P 153117-42-1P 153117-45-4P
153117-46-5P 153117-47-6P 153117-48-7P
153117-49-8P 153117-53-4P 153117-54-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as antihypertensive, serotonin-inhibiting)

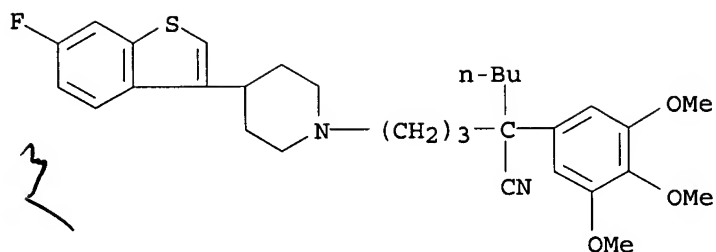
RN 153117-15-8 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-(3,4-dimethoxyphenyl)-4-(6-fluorobenzo[b]thien-3-yl)-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)



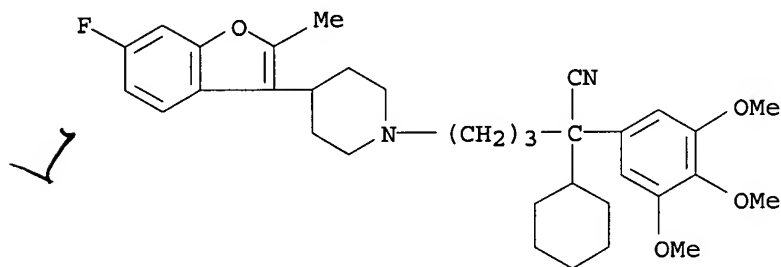
RN 153117-32-9 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluorobenzo[b]thien-3-yl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



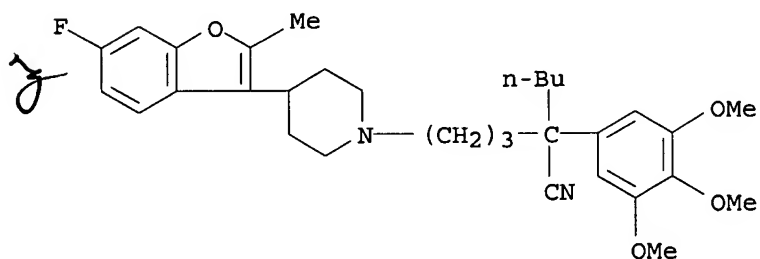
RN 153117-40-9 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluoro-2-methyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



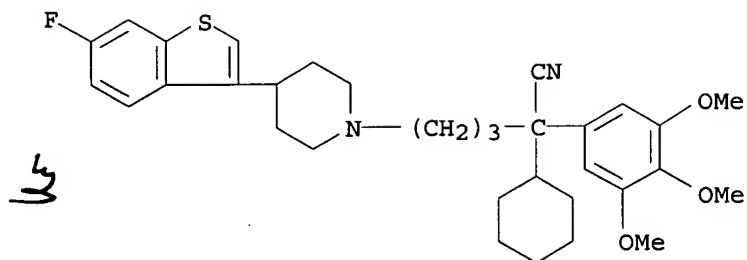
RN 153117-41-0 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluoro-2-methyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



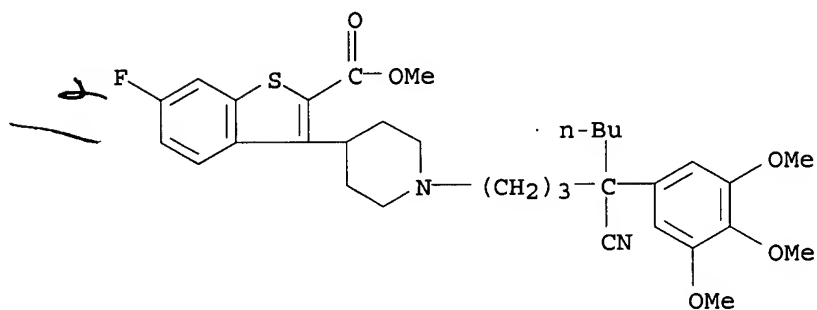
RN 153117-42-1 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluorobenzo[b]thien-3-yl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



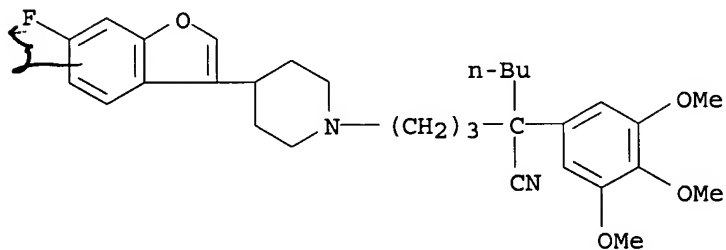
RN 153117-45-4 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 3-[1-[4-cyano-4-(3,4,5-trimethoxyphenyl)octyl]-4-piperidinyl]-6-fluoro-, methyl ester (9CI) (CA INDEX NAME)



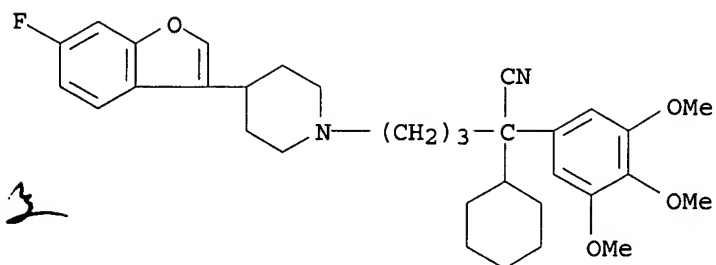
RN 153117-46-5 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluoro-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)

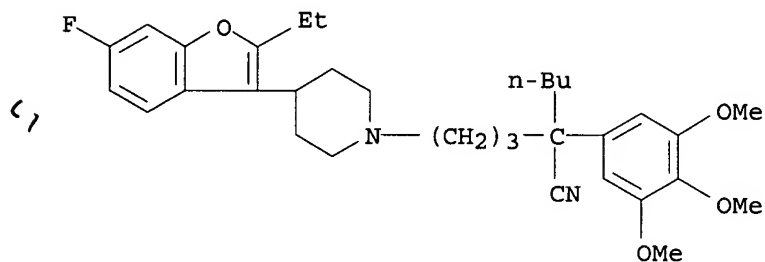


RN 153117-47-6 CAPLUS

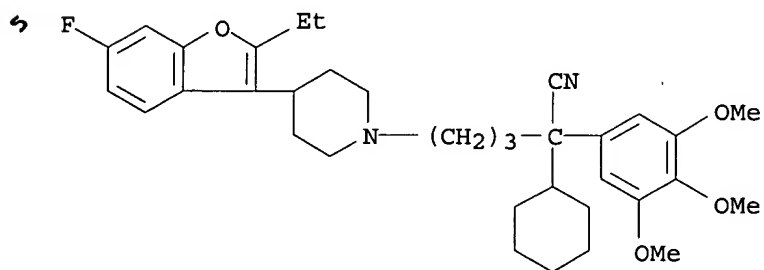
CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluoro-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



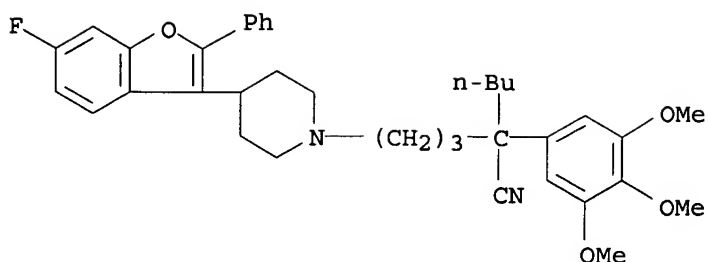
RN	153117-48-7	CAPLUS
CN	1-Piperidinepentanenitrile, .alpha.-butyl-4-(2-ethyl-6-fluoro-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)	



RN	153117-49-8	CAPLUS
CN	1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(2-ethyl-6-fluoro-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)	

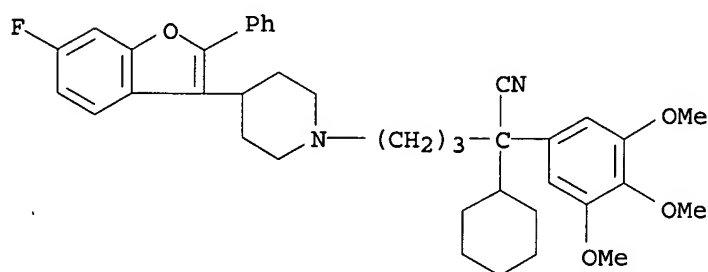


RN	153117-53-4	CAPLUS
CN	1-Piperidinepentanenitrile, .alpha.-butyl-4-(6-fluoro-2-phenyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)-(9CI) (CA INDEX NAME)	



RN 153117-54-5 CAPLUS

CN 1-Piperidinepentanenitrile, .alpha.-cyclohexyl-4-(6-fluoro-2-phenyl-3-benzofuranyl)-.alpha.-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1992:625748 CAPLUS

DN 117:225748

TI Molecular determinants of .mu. receptor recognition for the fentanyl class of compounds

AU Cometta-Morini, Chiara; Maguire, Patricia A.; Loew, Gilda H.

CS Mol. Res. Inst., Palo Alto, CA, 94304, USA

SO Molecular Pharmacology (1992), 41(1), 185-96

CODEN: MOPMA3; ISSN: 0026-895X

DT Journal

LA English

AB The authors report on a theor. study of a series of fentanyl analogs with a wide range of affinities and selectivities at the .mu. receptor, designed to identify and characterize the mol. determinants of .mu. receptor recognition. In this work, a complete conformational search combining nested rotations and mol. dyn. simulations has been made, leading to identification of accessible conformers for all analogs and to the selection of a candidate bioactive form. In addn., electronic properties have been calcd. and examd. as possible modulators of recognition at the .mu. receptor. The results of these studies have led to a distinct pharmacophore for interaction at the .mu. receptor for this class of compds., with the piperidine ring in a chair conformation and the N-phenethyl and 4-phenylpropanamide substituents both equatorial. Moreover, four key moieties necessary for optimum receptor recognition and a postulated role for each of them in this recognition have been identified. These are (i) a protonated amine nitrogen, assumed to be involved in an initial electrostatic interaction with a neg. charged site on the receptor; (ii) a polar function capable of hydrogen-bonding with an electrophilic site; (iii) an arom. ring involved in lipophilic interaction with a similar moiety; and (i.v.) a second arom. ring, most probably

involved in electron transfer interaction with the receptor. These requirements, taken together, form the basis of this proposed mechanism for μ receptor recognition. Not only is the presence of these components required for recognition, but specific steric relationships between them have been detd., implying the appropriate arrangement for interaction with complementary receptor sites. These steric parameters are pseudobond angles and one torsion angle that det. the relative spatial arrangement of these four moieties. They are the angles $\theta.1$ and $\theta.3$, defining the relative position of the protonated nitrogen and the polar function with each of the two arom. rings, and the torsion angle $\tau.1$, defining the orientation of the lone pair(s) on the polar proton-accepting function with respect to the lone pair on the piperidine nitrogen. This postulated mechanism of recognition provides a conceptual framework to understand why some compds. do and some do not recognize the μ receptor.

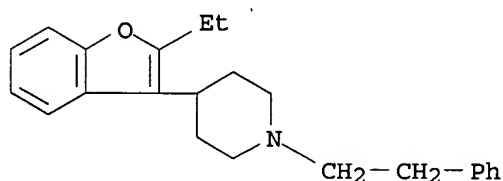
IT 144486-17-9

RL: BIOL (Biological study)

(.mu.-receptor binding of, pharmacophore and conformation for)

RN 144486-17-9 CAPLUS

CN Piperidine, 4-(2-ethyl-3-benzofuranyl)-1-(2-phenylethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1992:214507 CAPLUS

DN 116:214507

TI Preparation of triazolopyridine compounds as serotonin-2 antagonists

IN Watanabe, Yoshifumi; Yoshihara, Hirotaka; Shibano, Toshiro

PA Daiichi Seiyaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 27 pp.

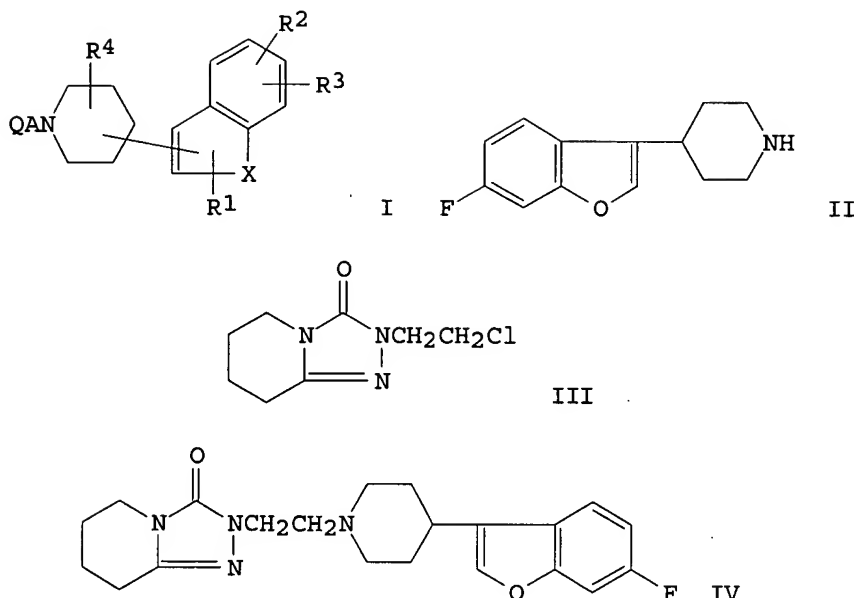
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03264583	A2	19911125	JP 1990-63911	19900314 <--
	JP 2883995	B2	19990419		
PRAI	JP 1990-63911		19900314		
OS	MARPAT 116:214507				
GI					



AB The title compds. [I; X = O, S, SO₂; A = C1-8 linear or branched alkylene; Q = 5- to 7-membered monocyclic or 5-6-membered-condensed 5-7-membered heterocycle; R₁ = H, OH, alkoxy, etc.; R₂, R₃ = H, alkyl, halo, OH, alkoxy, etc.; R₄ = H, alkyl, OH, aryl], useful in treating circulation system disorders, are prepd. Heating a mixt. of piperidine deriv. II, triazolopyridine deriv. III, NaI, and K₂CO₃ in DMF at 100.degree. gave 88% IV; isolated as the HCl salt. IV.HCl showed serotonin-2 antagonist activity with pA₂ = 8.5.

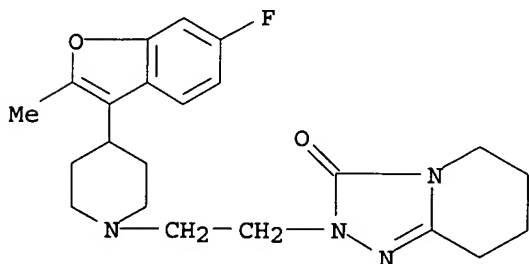
IT 140213-17-8P 140213-20-3P 140213-23-6P
 140213-24-7P 140213-28-1P 140213-29-2P
 140213-31-6P 140213-38-3P 140213-39-4P
 140213-44-1P 140213-48-5P 140213-49-6P
 140213-53-2P 140213-55-4P 140213-58-7P
 140213-63-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

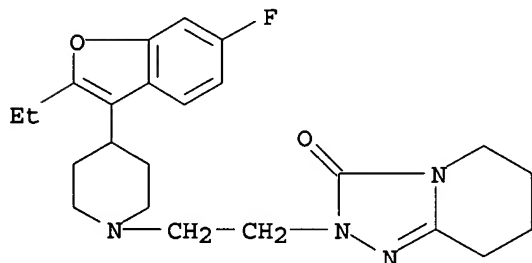
(prepn. and reaction of, in prepn. of serotonin antagonist)

RN 140213-17-8 CAPLUS

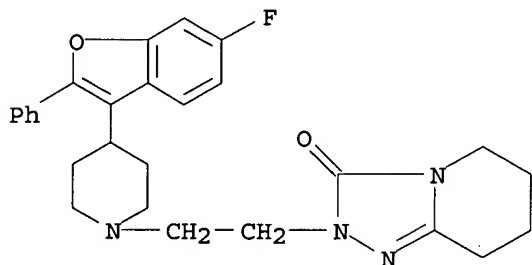
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



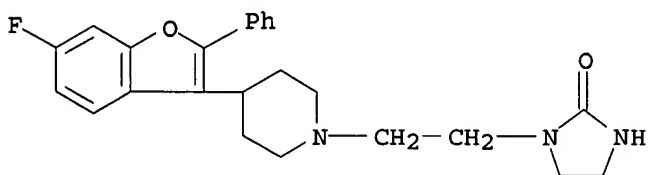
RN 140213-20-3 CAPLUS
 CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(2-ethyl-6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



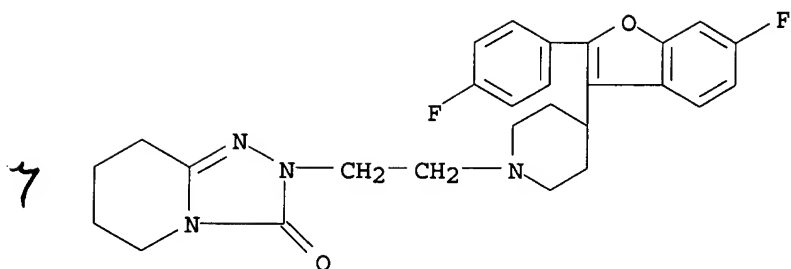
RN 140213-23-6 CAPLUS
 CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-phenyl-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



RN 140213-24-7 CAPLUS
 CN 2-Imidazolidinone, 1-[2-[4-(6-fluoro-2-phenyl-3-benzofuranyl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

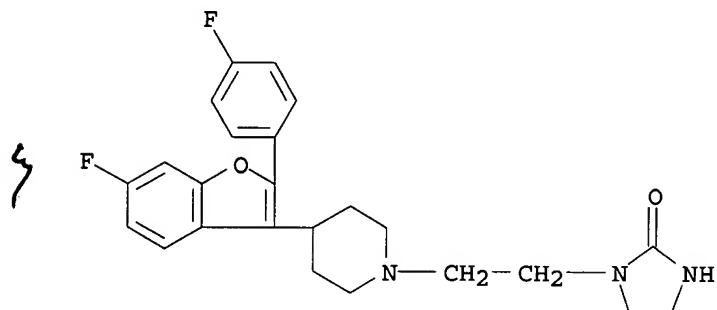


RN 140213-28-1 CAPLUS
 CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-2-(4-fluorophenyl)-3-benzofuranyl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



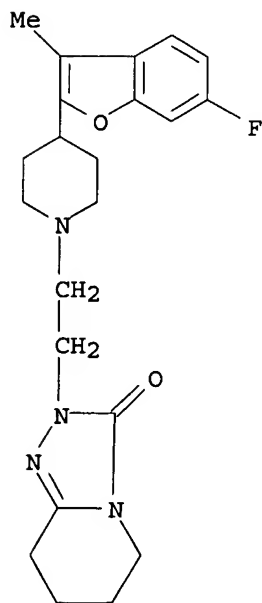
RN 140213-29-2 CAPLUS

CN 2-Imidazolidinone, 1-[2-[4-[6-fluoro-2-(4-fluorophenyl)-3-benzofuranyl]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



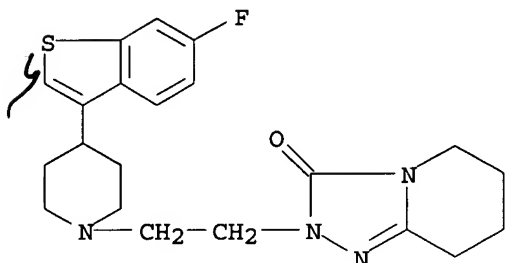
RN 140213-31-6 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-3-methyl-2-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



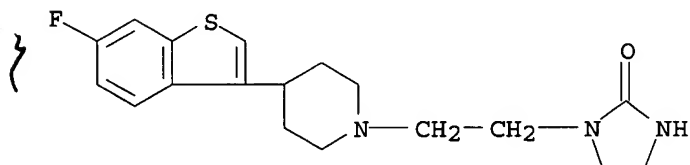
RN 140213-38-3 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



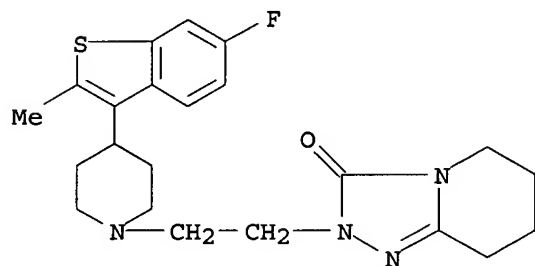
RN 140213-39-4 CAPLUS

CN 2-Imidazolidinone, 1-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



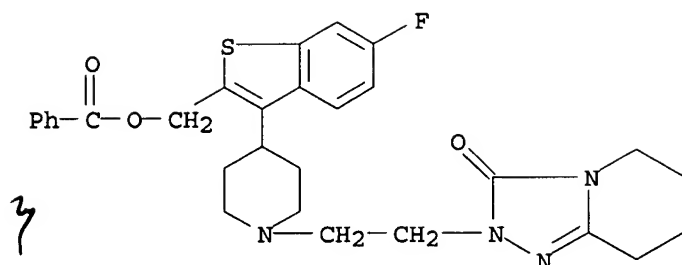
RN 140213-44-1 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-methylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



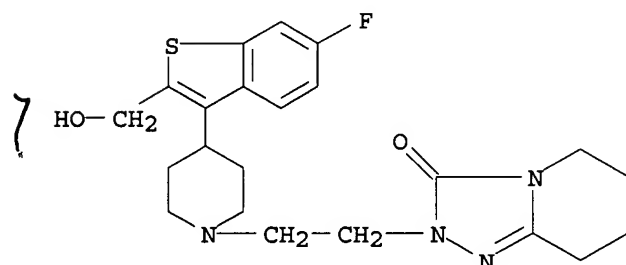
RN 140213-48-5 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[2-[(benzoyloxy)methyl]-6-fluorobenzo[b]thien-3-yl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



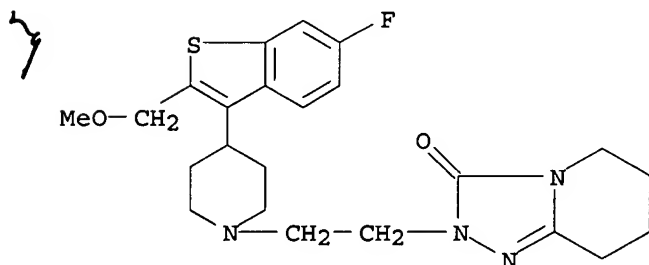
RN 140213-49-6 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-2-(hydroxymethyl)benzo[b]thien-3-yl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



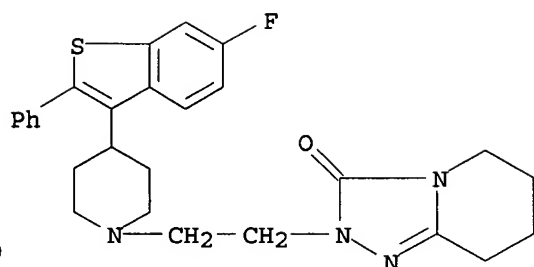
RN 140213-53-2 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-2-(methoxymethyl)benzo[b]thien-3-yl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



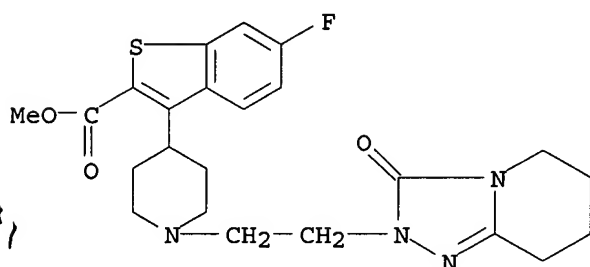
RN 140213-55-4 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-phenylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



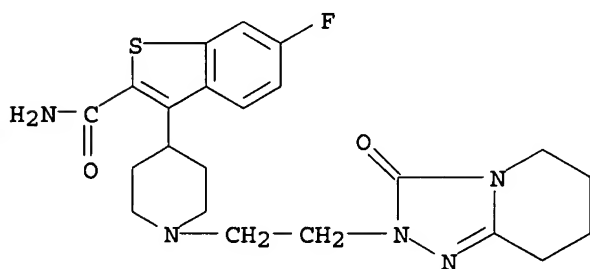
RN 140213-58-7 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 6-fluoro-3-[1-[2-(5,6,7,8-tetrahydro-3-oxo-1,2,4-triazolo[4,3-a]pyridin-2(3H)-yl)ethyl]-4-piperidinyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 140213-63-4 CAPLUS

CN Benzo[b]thiophene-2-carboxamide, 6-fluoro-3-[1-[2-(5,6,7,8-tetrahydro-3-oxo-1,2,4-triazolo[4,3-a]pyridin-2(3H)-yl)ethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



IT 140213-25-8P 140213-30-5P 140213-40-7P
 140213-66-7P 140213-67-8P 140213-68-9P
 140213-69-0P 140213-70-3P 140213-71-4P
 140213-72-5P 140213-73-6P 140213-74-7P
 140213-75-8P 140213-76-9P 140213-77-0P
 140213-78-1P 140213-79-2P 140213-80-5P
 140213-81-6P 140232-68-4P

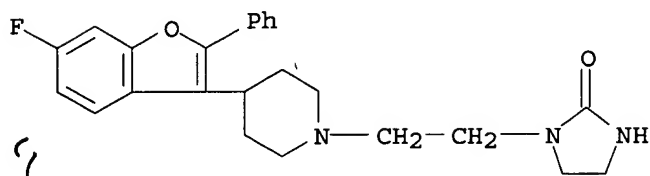
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as serotonin-2 antagonist)

RN 140213-25-8 CAPLUS

CN 2-Imidazolidinone, 1-[2-[4-(6-fluoro-2-phenyl-3-benzofuranyl)-1-

10/070,130

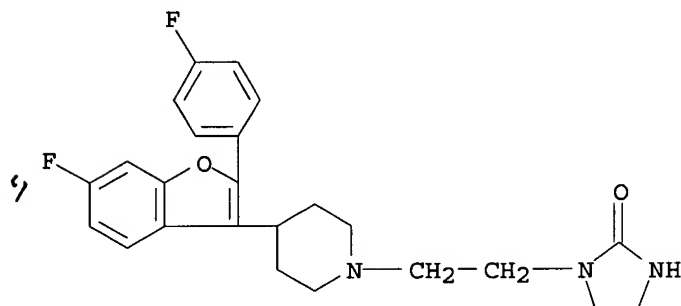
piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-30-5 CAPLUS

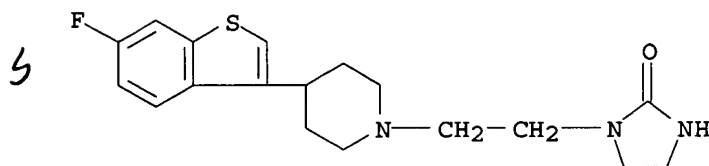
CN 2-Imidazolidinone, 1-[2-[4-[6-fluoro-2-(4-fluorophenyl)-3-benzofuranyl]-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-40-7 CAPLUS

CN 2-Imidazolidinone, 1-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

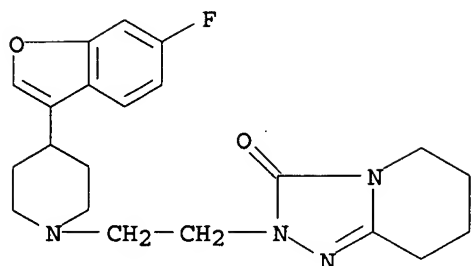


● HCl

RN 140213-66-7 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA

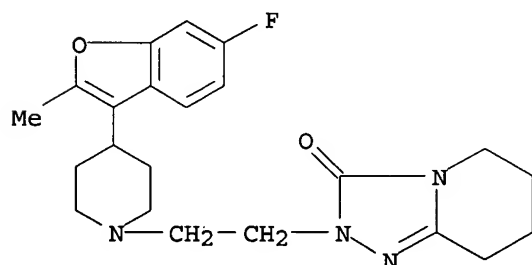
INDEX NAME)



● HCl

RN 140213-67-8 CAPLUS

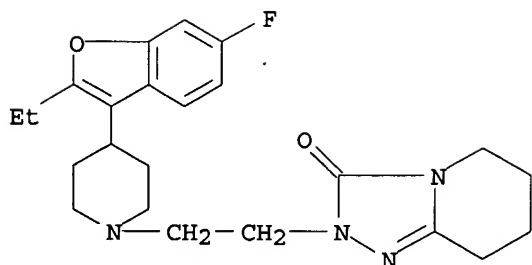
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-methyl-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-68-9 CAPLUS

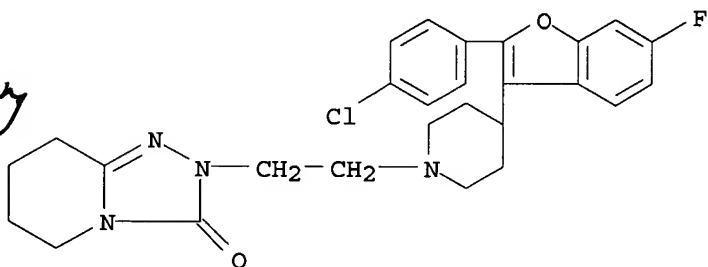
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(2-ethyl-6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-69-0 CAPLUS

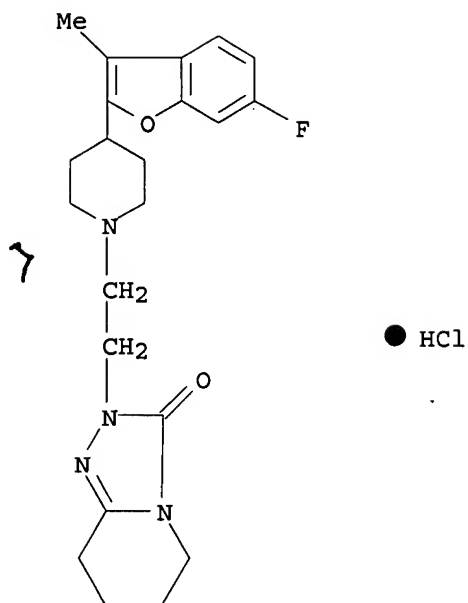
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[2-(4-chlorophenyl)-6-fluoro-3-benzofuranyl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

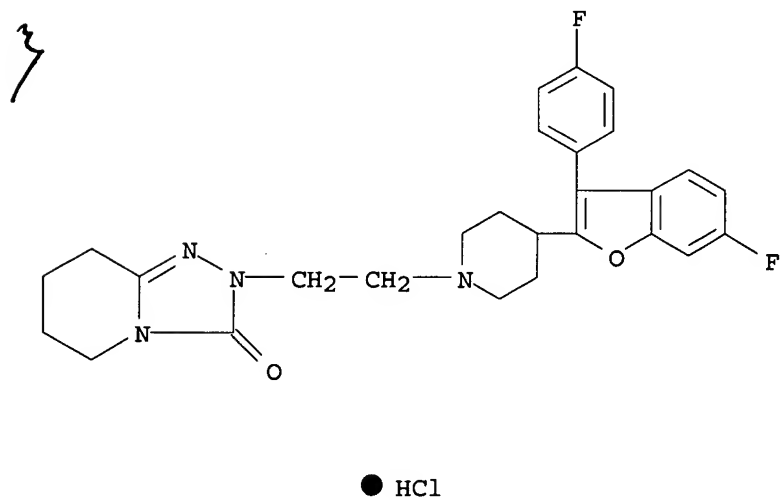
RN 140213-70-3 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-3-methyl-2-benzofuranyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



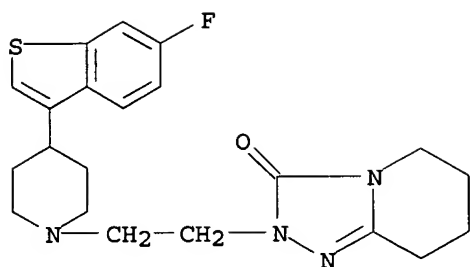
RN 140213-71-4 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-3-(4-fluorophenyl)-2-benzofuranyl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



RN 140213-72-5 CAPLUS

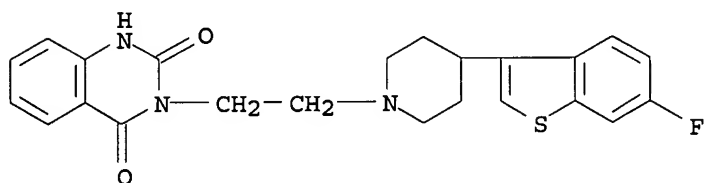
CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-73-6 CAPLUS

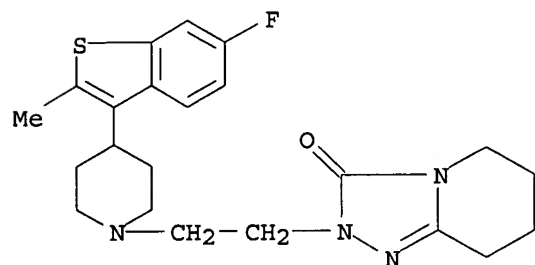
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 140213-74-7 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-methylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



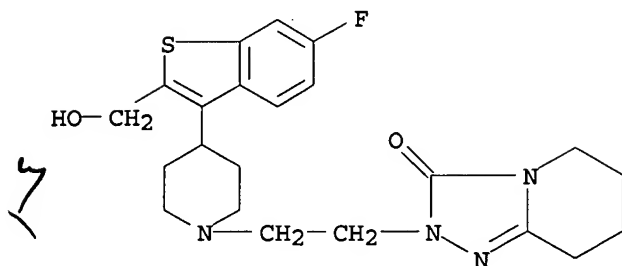
● HCl

RN 140213-75-8 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-2-(hydroxymethyl)benzo[b]thien-3-yl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-

10/070,130

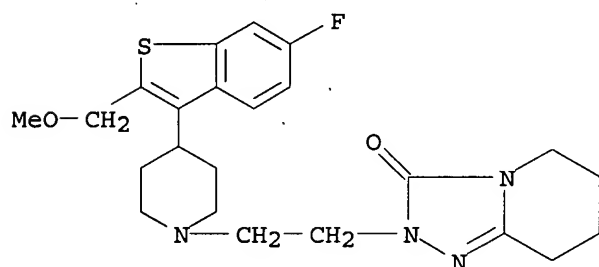
, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-76-9 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-[6-fluoro-2-(methoxymethyl)benzo[b]thien-3-yl]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

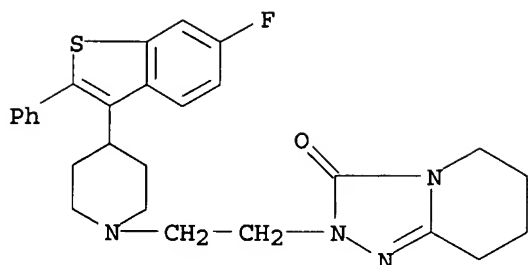
RN 140213-77-0 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-phenylbenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 140213-55-4

CMF C27 H29 F N4 O S

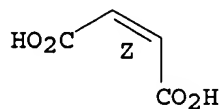


CM 2

CRN 110-16-7

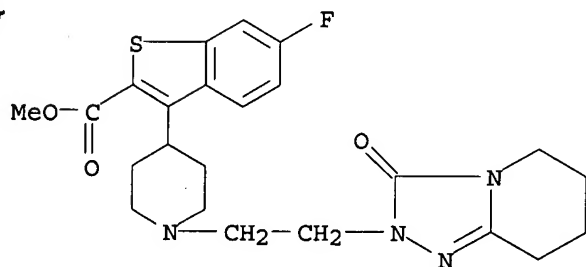
CMF C4 H4 O4

Double bond geometry as shown.



RN 140213-78-1 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 6-fluoro-3-[1-[2-(5,6,7,8-tetrahydro-3-oxo-1,2,4-triazolo[4,3-a]pyridin-2(3H)-yl)ethyl]-4-piperidinyl]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140213-79-2 CAPLUS

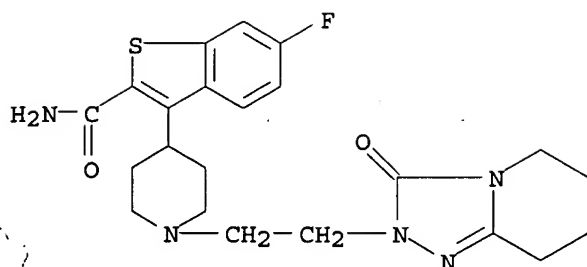
CN Benzo[b]thiophene-2-carboxamide, 6-fluoro-3-[1-[2-(5,6,7,8-tetrahydro-3-oxo-1,2,4-triazolo[4,3-a]pyridin-2(3H)-yl)ethyl]-4-piperidinyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 140213-63-4

CMF C22 H26 F N5 O2 S

10/070,130

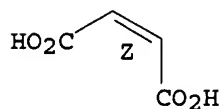


CM 2

CRN 110-16-7

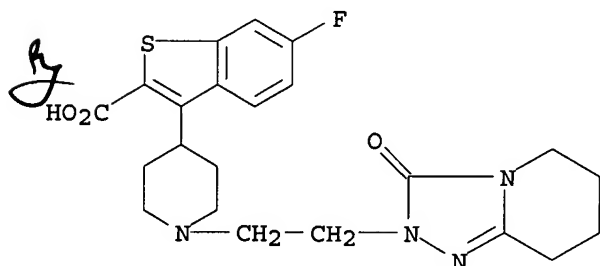
CMF C4 H4 O4

Double bond geometry as shown.



RN 140213-80-5 CAPLUS

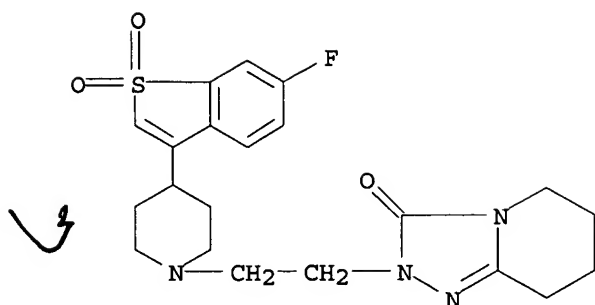
CN Benzo[b]thiophene-2-carboxylic acid, 6-fluoro-3-[1-[2-(5,6,7,8-tetrahydro-3-oxo-1,2,4-triazolo[4,3-a]pyridin-2(3H)-yl)ethyl]-4-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

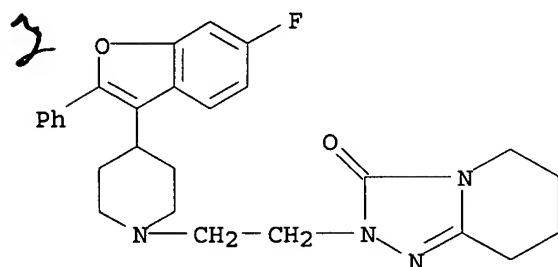
RN 140213-81-6 CAPLUS

CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-1,1-dioxidobenzo[b]thien-3-yl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 140232-68-4 CAPLUS
 CN 1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[2-[4-(6-fluoro-2-phenyl-3-benzofuranyl)-1-piperidiny]ethyl]-5,6,7,8-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

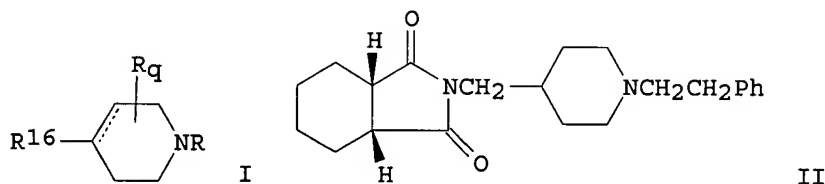


● HCl

L10 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1991:535930 CAPLUS
 DN 115:135930
 TI Preparation of (phthalimidoalkyl)piperidines and analogs as psychotropic agents
 IN Ciganek, Engelbert; Tam, Sang William; Wright, Ann Sorrentino
 PA du Pont de Nemours, E. I., and Co., USA
 SO PCT Int. Appl., 113 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9106297	A1	19910516	WO 1990-US6102	19901029 <--
	W: AU, CA, FI, HU, JP, KR, NO, SU				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	IL 96144	A1	19940624	IL 1990-96144	19901028 <--
	AU 9066265	A1	19910531	AU 1990-66265	19901029 <--

AU 655406	B2	19941222		
ZA 9008641	A	19920624	ZA 1990-8641	19901029 <--
EP 497843	A1	19920812	EP 1990-916143	19901029 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 06504980	T2	19940609	JP 1990-515062	19901029 <--
NO 9201594	A	19920424	NO 1992-1594	19920424 <--
FI 9201856	A	19920424	FI 1992-1856	19920424 <--
PRAI US 1989-428097		19891027		
US 1990-602024		19901023		
WO 1990-US6102		19901029		
OS MARPAT 115:135930				
GI				



AB The title compds. [I; R = (CH₂)_nR₂; R₁ = (CH₂)_mR₃, (CH₂)_pAr; R₂ is selected from 39 general benzo-fused phthalimido and analogous groups; R₃ = cycloalkyl; Ar = (un)substituted Ph, naphthyl, pyridyl, pyrimidinyl, (iso)quinolyl; R₁₆ = H, OH, alkoxy, acyloxy, alkyl, (un)substituted (hetero)aryl; dashed line = optional bond; when said bond is present R₁₆ = (CH₂)_nR₂ and q = 0, otherwise q = 1; m, p = 1-4; n = 0-4] were prepd. Thus, 4-aminomethylpyridine was cyclocondensed with cis-1,2-cyclohexanedicarboxylic anhydride and the product N-alkylated with BrCH₂CH₂Ph to give, after hydrogenation over PtO₂, title compd. II which inhibited isolation-induced aggressive behavior in mice when administered orally (no dose given).

IT **135903-63-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as psychotropic agent)

RN 135903-63-8 CAPLUS

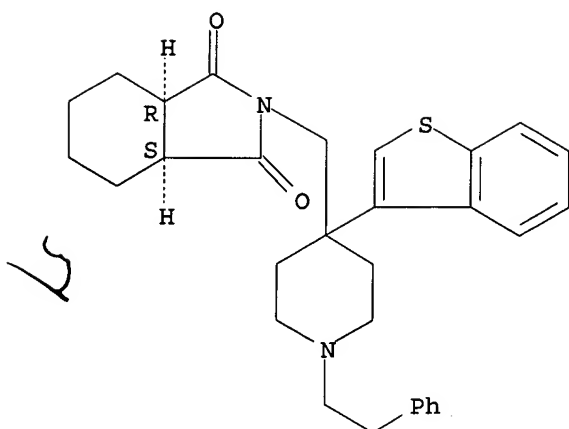
CN 1H-Isoindole-1,3(2H)-dione, 2-[[4-benzo[b]thien-3-yl-1-(2-phenylethyl)-4-piperidinyl]methyl]hexahydro-, (3aR,7aS)-rel-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 135903-62-7

CMF C30 H34 N2 O2 S

Relative stereochemistry.

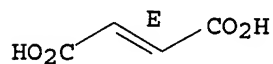


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



L10 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1991:102032 CAPLUS
 DN 114:102032
 TI 2-Aminopyrimidinone derivatives as serotonin, histamine, and dopamine antagonists
 IN Kennis, Ludo E. J.; Vandenberg, Jan; Boey, Jozef M.
 PA Janssen Pharmaceutica N. V., Belg.
 SO Eur. Pat. Appl., 38 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 378255	A2	19900718	EP 1990-200005	19900103 <--
	EP 378255	A3	19910109		
	EP 378255	B1	19940427		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
	IL 92730	A1	19930610	IL 1989-92730	19891215 <--
	AT 104971	E	19940515	AT 1990-200005	19900103 <--
	ES 2055860	T3	19940901	ES 1990-200005	19900103 <--
	CA 2007200	AA	19900709	CA 1990-2007200	19900105 <--
	NO 9000071	A	19900710	NO 1990-71	19900108 <--
	NO 173139	B	19930726		
	NO 173139	C	19931103		
	FI 9000085	A	19900710	FI 1990-85	19900108 <--
	FI 94525	B	19950615		
	FI 94525	C	19950925		
	AU 9047779	A1	19900712	AU 1990-47779	19900108 <--

AU 617918	B2	19911205		
HU 52770	A2	19900828	HU 1990-64	19900108 <--
HU 203747	B	19910930		
ZA 9000123	A	19910925	ZA 1990-123	19900108 <--
RU 2028297	C1	19950209	RU 1990-4742788	19900108 <--
CN 1044094	A	19900725	CN 1990-100075	19900109 <--
CN 1034865	B	19970514		
JP 02225482	A2	19900907	JP 1990-2415	19900109 <--
JP 2938492	B2	19990823		
US 5140029	A	19920818	US 1991-643867	19910118 <--
US 5256659	A	19931026	US 1992-901465	19920619 <--
US 5284854	A	19940208	US 1993-82225	19930624 <--
PRAI GB 1989-382		19890109		
US 1989-456319		19891226		
EP 1990-200005		19900103		
US 1991-643867		19910118		
US 1992-901465		19920619		
OS MARPAT 114:102032				
GI				

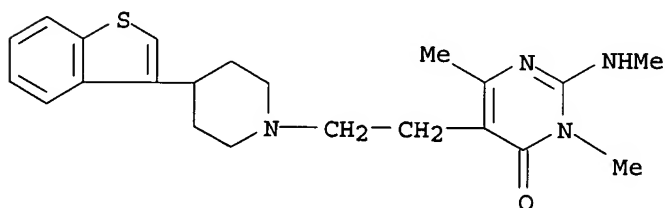
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; R1 = (R7-substituted) PhCO, Q1, Q2, Q3; R7 = H, alkyl, halo; B = O, S, NR8; R8 = H, alkyl, arylalkyl; R2, R3 = H, alkyl; R4 = H, (substituted) alkyl; R5 = R2, alkylaminocarbonyl, arylaminocarbonyl, alkylcarbonyl, arylcarbonyl; R6 = R2, arylalkyl; R5R6 = (substituted) CH2CH2, CH2CH2CH2, CH:CH, CH:N, N:CH, N:CHCH2; X = C, CH, N; Y = alkylene] were prepd. Thus, 5-(2-chloroethyl)-3,6-dimethyl-2-methylamino-4(3H)pyrimidinone hydrochloride (prepn. given), 4-[bis(4-fluorophenyl)methylen]piperidine hydrobromide, Na2CO3, KI, and 4-methyl-2-pentanone were refluxed overnight to give 68.9% title compd. II. II at 0.04-0.63 mg/kg i.p. in rats increased the duration of deep slow-wave sleep (SWS2) episodes while reducing the no. of such episodes; II was 10 .times. more active than ritanserine in this screen.

IT **132136-08-4P 132136-57-3P 132136-59-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as serotonin, histamine, and dopamine antagonist)

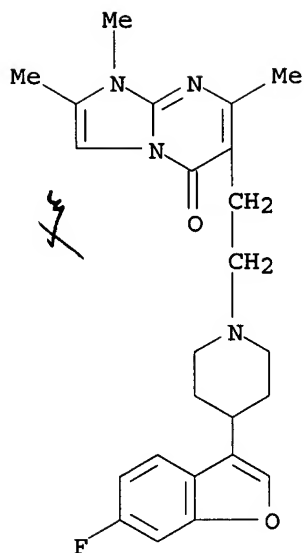
RN 132136-08-4 CAPLUS

CN 4(3H)-Pyrimidinone, 5-[2-[4-benzo[b]thien-3-yl-1-piperidinyl]ethyl]-3,6-dimethyl-2-(methylamino)- (9CI) (CA INDEX NAME)



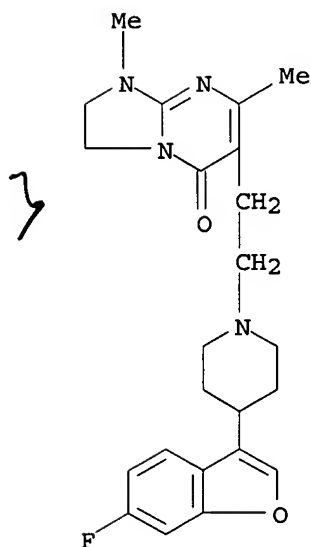
RN 132136-57-3 CAPLUS

CN Imidazo[1,2-a]pyrimidin-5(1H)-one, 6-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-1,2,7-trimethyl- (9CI) (CA INDEX NAME)



RN 132136-59-5 CAPLUS

CN Imidazo[1,2-a]pyrimidin-5(1H)-one, 6-[2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]ethyl]-2,3-dihydro-1,7-dimethyl- (9CI) (CA INDEX NAME)



L10 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1981:417982 CAPLUS

DN 95:17982

TI Opiate receptor interaction of compounds derived from or structurally related to fentanyl

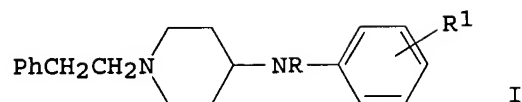
AU Lobbezoo, Marinus W.; Soudijn, Willem; Van Wijngaarden, Ineke

CS Dep. Pharm. Chem., Univ. Amsterdam, Amsterdam, 1018 TV, Neth.

SO Journal of Medicinal Chemistry (1981), 24(7), 777-82

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal
LA English
GI



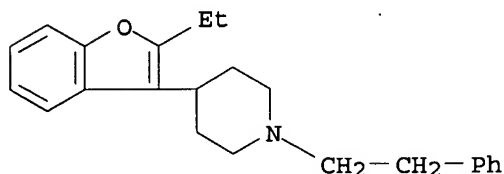
AB Twenty-seven title compds. I (R = H, COEt; R1 = H, OMe, Et, NO2, etc.) were synthesized and their opiate receptor affinity was detd. by in vitro receptor binding assays. The relatively high affinity of fentanyl citrate (I; R = COEt; R1 = H) [990-73-8] (3 times morphine) was hardly influenced by the introduction of a 2-Me, 2-OMe, or a 2-Cl substituent into the anilino Ph group and was moderately reduced by 2-Et, OEt, and 2,6-di-Me substitution in this ring. Removal of the COEt group of the 2-OMe deriv., fixation of the anilino Ph in fentanyl to the COEt group or the piperidine ring, and replacement of the amide N by C all caused a sharp decline of receptor affinity. Examn. of mol. models indicated that optimal opiate receptor interaction of fentanyl and its derivs. requires a virtually perpendicular position of the anilino Ph with respect to the amide function.

IT 77483-26-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and opiate receptor binding activity of)

RN 77483-26-2 CAPLUS

CN Piperidine, 4-(2-ethyl-3-benzofuranyl)-1-(2-phenylethyl)-, hydrochloride
(9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1980:128735 CAPLUS

DN 92:128735

TI 1-[4-(4-Fluorophenyl)-4-oxobutyl]-4-(2-benzofuranyl)-1,2,3,6-tetrahydropyridine

IN Zarins, P.; Lavrinovich, E. S.; Germane, S.

PA Institute of Organic Synthesis, Academy of Sciences, Latvian S.S.R., USSR

SO U.S.S.R.

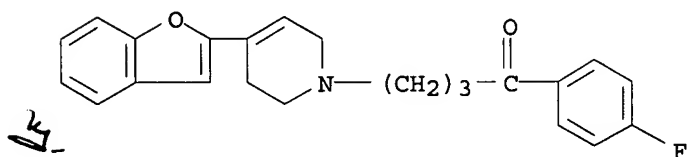
From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1979, (41), 260.
CODEN: URXXAF

DT Patent

LA Russian

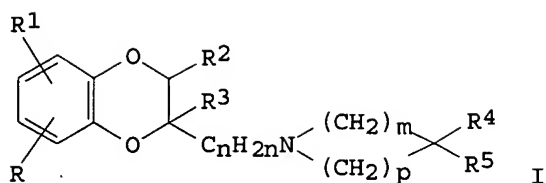
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 607413	T	19791105	SU 1976-2430455	19761217 <--
PRAI	SU 1976-2430455		19761217		
AB	The title compd. was prepd. by heating a 4-(2-benzofuranyl)pyridine with 4-(4-fluorophenyl)-4,4-ethylenedioxybutyl halide in DMF at 90-100.degree. followed by redn. of the resulting quaternary salts with NaBH ₄ in H ₂ O or aq. alc. at 10-40.degree. with subsequent removal of the dioxolane by treatment with acid, e.g., HCl or F ₃ CCO ₂ H at 20-100.degree..				
IT	73126-41-7P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	73126-41-7 CAPLUS				
CN	1-Butanone, 4-[4-(2-benzofuranyl)-3,6-dihydro-1(2H)-pyridinyl]-1-(4-fluorophenyl)- (9CI) (CA INDEX NAME)				



L10 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1979:152202 CAPLUS
 DN 90:152202
 TI Neuroleptic 2-piperidinoalkyl-1,4-benzodioxans
 IN Huebner, Charles F.
 PA Ciba-Geigy Corp., USA
 SO U.S., 11 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4129655	A	19781212	US 1977-760493	19770119 <--
	US 4039676	A	19770802	US 1975-589118	19750623 <--
	US 4104396	A	19780801	US 1976-680318	19760426 <--
	US 4140781	A	19790220	US 1977-845019	19771025 <--
	CS 198191	P	19800530	CS 1978-411	19780120 <--
	CS 198192	P	19800530	CS 1978-412	19780120 <--
	CS 198193	P	19800530	CS 1978-413	19780120 <--
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PRAI	US 1975-589118		19750623		
	US 1976-680318		19760426		
	AT 1976-4537		19760622		
	CS 1976-4113		19760622		
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GI					



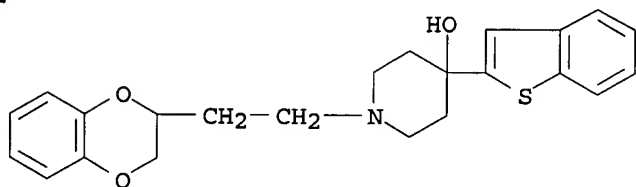
AB Title compds. I [R, R1 = H, alkyl, OH, SH, alkoxy, alkylenedioxy, PhCH2O, alkylthio CF3, NO2, amino; R2, R3 = H, alkyl; n = 1, 2, 3, 4; m, p = 1, 2, 3; (m + p) = 4; R4 = H, OH, alkoxy, alkenyloxy, alkynyloxy, alkanoyloxy; R5 = (un)substituted furyl, thienyl, benzofuryl, benzothienyl] were prepd. by different methods. 2-(2-Tosyloxyethyl)-1,4-benzodioxan, 4-phenyl-4-piperidinol, Na2CO3, and Me2CHCH2COMe was refluxed to yield 2-[2-(4-hydroxy-4-phenylpiperidino)ethyl]-1,2-benzodioxan. The 4-hydroxy-4-(2-thienyl) analog was prepd. by the reaction of thiophene with BuLi and 2-[2-(4-oxopiperidino)ethyl]-1,4-benzodioxan.

IT 62590-54-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 62590-54-9 CAPLUS

CN 4-Piperidinol, 4-benzo[b]thien-2-yl-1-[2-(2,3-dihydro-1,4-benzodioxin-2-yl)ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1979:152199 CAPLUS

DN 90:152199

TI 2-Piperidinoalkyl-1,4-benzodioxans

IN Huebner, Charles Ferdinand

PA Ciba-Geigy Corp., USA

SO U.S., 11 pp.

CODEN: USXXAM

DT Patent

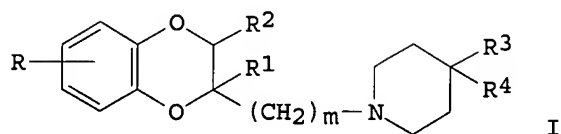
LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4104396	A	19780801	US 1976-680318	19760426 <--
	US 4039676	A	19770802	US 1975-589118	19750623 <--
	ZA 7602264	A	19770427	ZA 1976-2264	19760414 <--
	FR 2315272	A1	19770121	FR 1976-18796	19760621 <--
	ES 449069	A1	19771116	ES 1976-449069	19760621 <--
	GB 1544647	A	19790425	GB 1976-25658	19760621 <--
	BE 843241	A1	19761222	BE 1976-168173	19760622 <--
	SE 7607152	A	19761224	SE 1976-7152	19760622 <--
	FI 7601818	A	19761224	FI 1976-1818	19760622 <--
	DK 7602789	A	19761224	DK 1976-2789	19760622 <--

NO 7602158	A	19761227	NO 1976-2158	19760622 <--
DD 126408	C	19770713	DD 1976-193503	19760622 <--
AU 7615130	A1	19780105	AU 1976-15130	19760622 <--
AU 502667	B2	19790802		
ZA 7603705	A	19780222	ZA 1976-3705	19760622 <--
AT 7604537	A	19781115	AT 1976-4537	19760622 <--
AT 350569	B	19790611		
HU 174277	P	19791228	HU 1976-CI1670	19760622 <--
CS 198190	P	19800530	CS 1976-4113	19760622 <--
NL 7606856	A	19761227	NL 1976-6856	19760623 <--
JP 52003073	A2	19770111	JP 1976-74969	19760623 <--
US 4129655	A	19781212	US 1977-760493	19770119 <--
ES 460695	A1	19780501	ES 1977-460695	19770713 <--
ES 460694	A1	19780516	ES 1977-460694	19770713 <--
ES 460696	A1	19780701	ES 1977-460696	19770713 <--
US 4140781	A	19790220	US 1977-845019	19771025 <--
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CS 198192	P	19800530	CS 1978-412	19780120 <--
CS 198193	P	19800530	CS 1978-413	19780120 <--
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AT 350572	B	19790611		
AT 7801955	A	19781115	AT 1978-1955	19780320 <--
AT 350571	B	19790611		
AT 7801956	A	19790415	AT 1978-1956	19780320 <--
AT 353271	B	19791112		
PRAI US 1975-589118		19750623		
US 1976-680318		19760426		
AT 1976-4537		19760622		
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GI

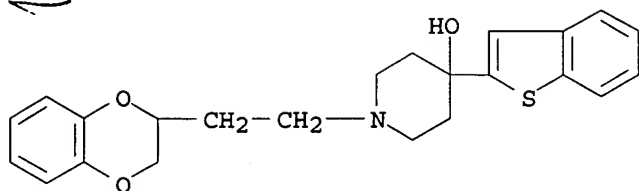


AB The piperidinoalkylbenzodioxanes I (R = alkyl, hydroxy, mercapto, alkoxy, alkylenedioxy, benzyloxy, alkylthio, halo, CF₃, NO₂, NH₂; R₁, R₂ = H, alkyl; R₃ = H, OH, alkoxy, C₁-18 alkanoyloxy; R₄ = alkyl, Ph, benzyl; y = 2-4), useful as analgesics and neuroleptics (no data), were prepd. Thus, 2-(2-tosyloxyethyl)-1,4-benzodioxane and 4-hydroxy-4-phenylpiperidine were refluxed in Me₂CHCH₂COHMe for 48 h to give I (R-R₂ = H, R₃ = OH, R₄ = Ph, x = 1, y = 2).

IT **62590-54-9P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 62590-54-9 CAPLUS

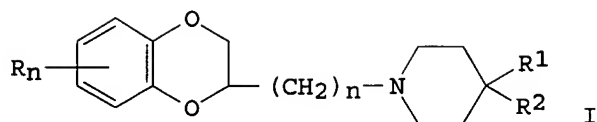
CN 4-Piperidinol, 4-benzo[b]thien-2-yl-1-[2-(2,3-dihydro-1,4-benzodioxin-2-yl)ethyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1977:171465 CAPLUS
DN 86:171465
TI 2-(Piperidinoalkyl)-1,4-benzodioxans
IN Huebner, Charles F.
PA Ciba-Geigy A.-G., Switz.
SO Ger. Offen., 68 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
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PI	DE 2627616	A1	19770113	DE 1976-2627616	19760619	<--
	US 4039676	A	19770802	US 1975-589118	19750623	<--
	ZA 7602264	A	19770427	ZA 1976-2264	19760414	<--
	FR 2315272	A1	19770121	FR 1976-18796	19760621	<--
	ES 449069	A1	19771116	ES 1976-449069	19760621	<--
	GB 1544647	A	19790425	GB 1976-25658	19760621	<--
	BE 843241	A1	19761222	BE 1976-168173	19760622	<--
	SE 7607152	A	19761224	SE 1976-7152	19760622	<--
	FI 7601818	A	19761224	FI 1976-1818	19760622	<--
	DK 7602789	A	19761224	DK 1976-2789	19760622	<--
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	AU 7615130	A1	19780105	AU 1976-15130	19760622	<--
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	AT 7604537	A	19781115	AT 1976-4537	19760622	<--
	AT 350569	B	19790611			
	HU 174277	P	19791228	HU 1976-CI1670	19760622	<--
	CS 198190	P	19800530	CS 1976-4113	19760622	<--
	NL 7606856	A	19761227	NL 1976-6856	19760623	<--
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	AT 350572	B	19790611			
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	AT 350571	B	19790611			
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	AT 353271	B	19791112			
PRAI	US 1975-589118		19750623			
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GI



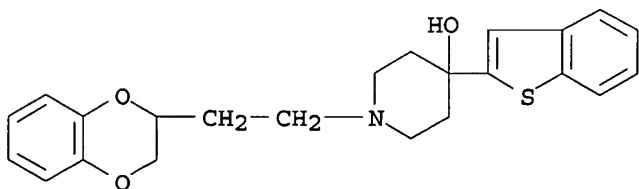
AB (Piperidinoalkyl)benzodioxans (I; R_n = e.g. H, 7-Cl, 6,7-Cl₂, 6,7,8-Cl₃, 7-Me, 8-Me, 8-MeO; R_1 = H, OH, MeO; R_2 = Ph, substituted phenyl, PhCH₂, 2-pyridyl, 3-pyridyl, benzothienyl; n = 1,2,3), useful as analgesics and tranquilizers (no data), are prepd. by various std. procedures. Thus, H₂C:CHCH₂CN reacts with Br to give BrCH₂CHBrCH₂CN which condenses with o-C₆H₄(OH)₂ to give 1,4-benzodioxan-2-ylacetonitrile (II). Hydrolysis and redn. of II gives 1,4-benzodioxan-2-ethanol which is converted to the p-toluenesulfonate (III). 4-Phenyl-4-piperidinol reacts with III in Me₂CHCH₂COMe in presence of Na₂CO₃ to give after 48 h reflux I (R_n = H, R_1 = OH, R_2 = Ph).

IT 62590-54-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 62590-54-9 CAPLUS

CN 4-Piperidinol, 4-benzo[b]thien-2-yl-1-[2-(2,3-dihydro-1,4-benzodioxin-2-yl)ethyl]- (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

151.72

452.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-24.09

-24.09

STN INTERNATIONAL LOGOFF AT 15:59:30 ON 25 SEP 2003